

- LEGEND**
- PROPOSED REINFORCED MOUNTABLE KERB
  - - - PROPOSED SEMI-MOUNTABLE KERB
  - - - PROPOSED CENTRELINE
  - - - EXISTING ROAD AND EXISTING CENTRELINE
  - s - s - PROPOSED SEWER MAIN LAYOUT
  - d - d - PROPOSED DRAINAGE MAIN LAYOUT
  - ⊠ EXISTING DRAINAGE PIT
  - d - d - PROPOSED SUBSOIL DRAINAGE
  - d - d - EXISTING DRAINAGE MAIN LAYOUT
  - w - w - EXISTING WATER MAIN LAYOUT
  - s - s - EXISTING SEWER MAIN LAYOUT
  - LV CABLE - EXISTING LOW VOLTAGE POWER LINE
  - 35.0 - CONTOURS DESIGN
  - d - d - EXISTING DRAINAGE MAIN LAYOUT
  - ⊠ EXISTING DRAINAGE PIT
  - OP - EXISTING OVERHEAD POWER
  - EXISTING OVERHEAD POWER POLE
  - - - EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
  - - - DBNGP GAS MAIN
  - ⊠ EXISTING TELSTRA PIT

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A	17/10/21	CK	CK			ISSUED FOR 15% REVIEW

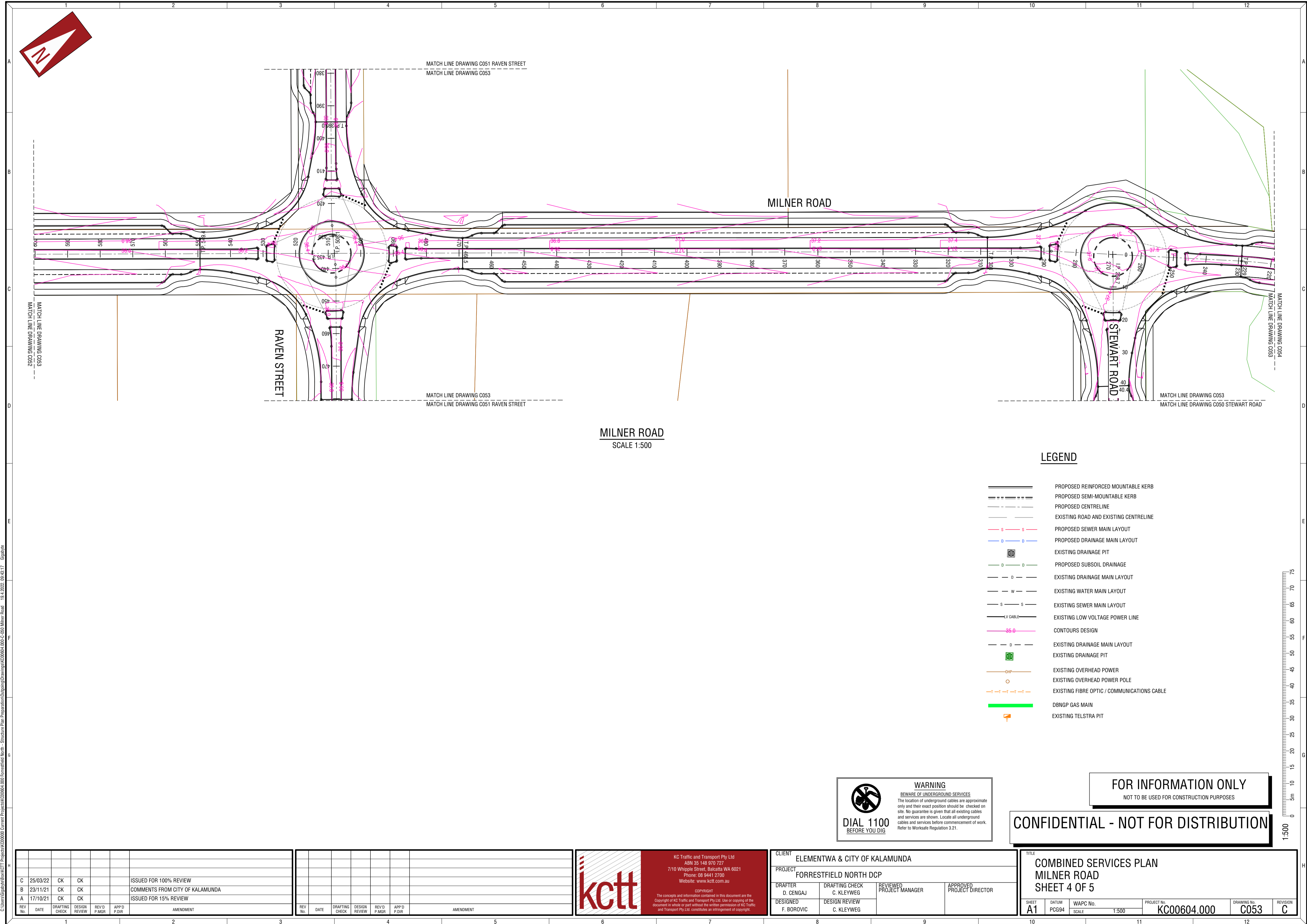
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PROJECT FORRESTFIELD NORTH DCP			
DRAFTER D. CENGAJ	DRAFTING CHECK C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE COMBINED SERVICES PLAN MILNER ROAD SHEET 3 OF 5			
SHEET A1	DATUM PG094	WAPC No. SCALE 1:500	PROJECT No. KC00604.000
DRAWING No. C052	REVISION C		



MILNER ROAD  
SCALE 1:500

**LEGEND**

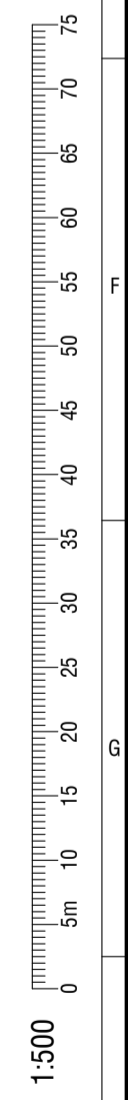
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- PROPOSED SEMI-MOUNTABLE KERB
- PROPOSED CENTRELINE
- EXISTING ROAD AND EXISTING CENTRELINE
- PROPOSED SEWER MAIN LAYOUT
- PROPOSED DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- PROPOSED SUBSOIL DRAINAGE
- EXISTING DRAINAGE MAIN LAYOUT
- EXISTING WATER MAIN LAYOUT
- EXISTING SEWER MAIN LAYOUT
- EXISTING LOW VOLTAGE POWER LINE
- V-CABLE
- 35.0 CONTOURS DESIGN
- EXISTING DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- EXISTING OVERHEAD POWER
- EXISTING OVERHEAD POWER POLE
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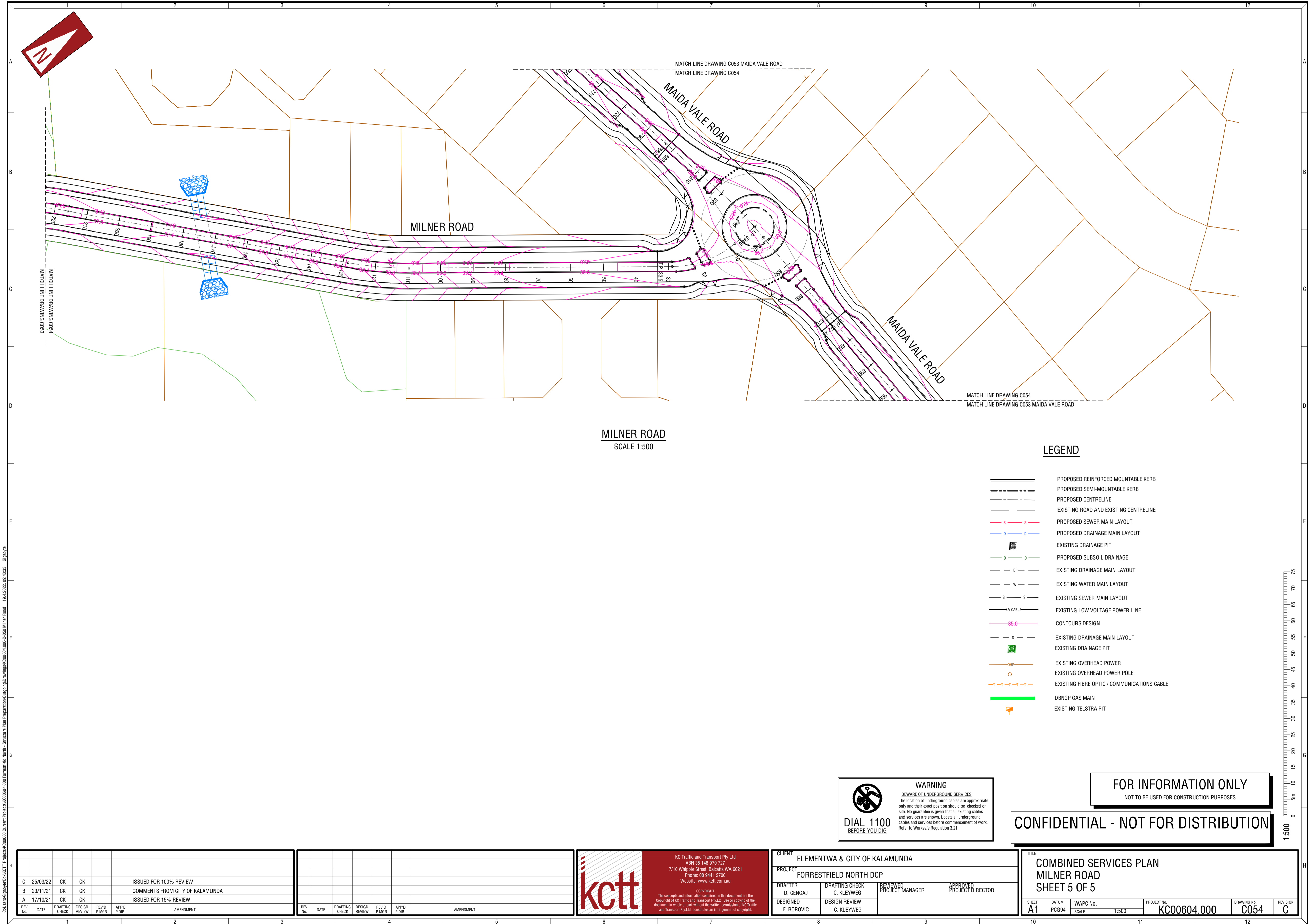
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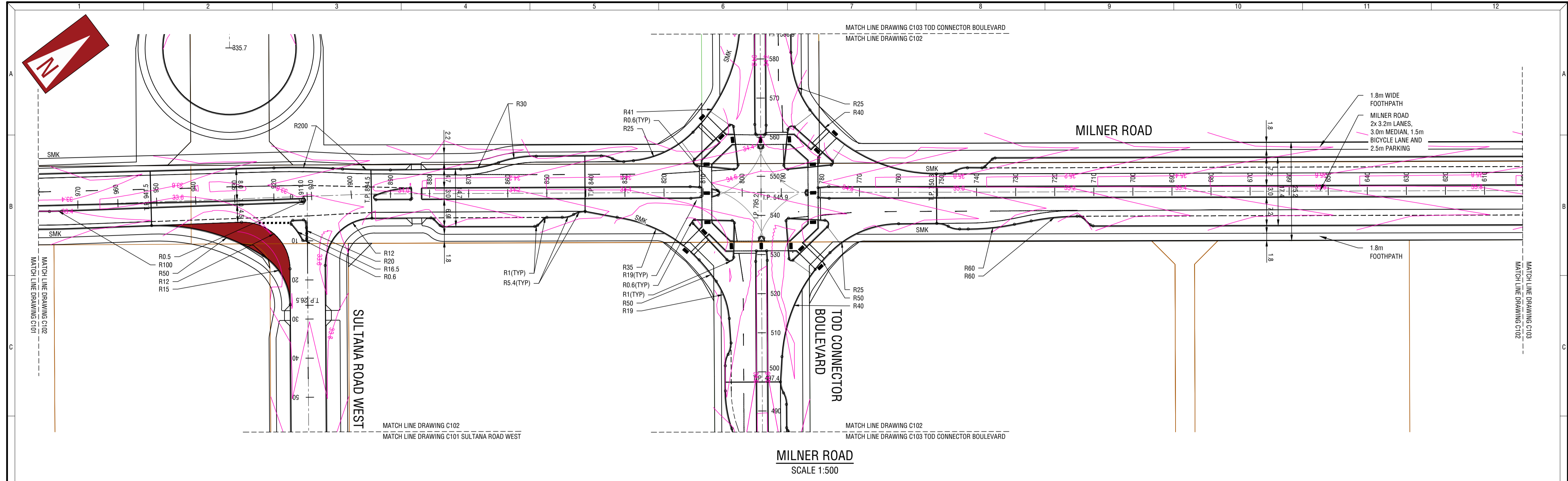
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PROJECT	FORRESTFIELD NORTH DCP				
DRAFTER	D. CENGAJ	DRAFTING CHECK	C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED	F. BOROVIC	DESIGN REVIEW	C. KLEYWEG		

TITLE	COMBINED SERVICES PLAN MILNER ROAD SHEET 4 OF 5		
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PGS4	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C053	C		

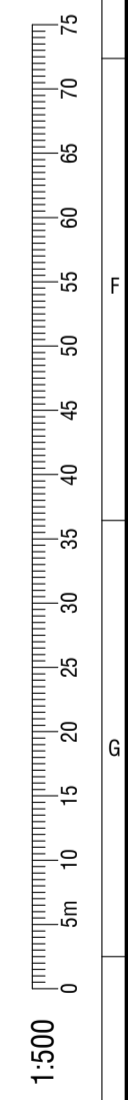
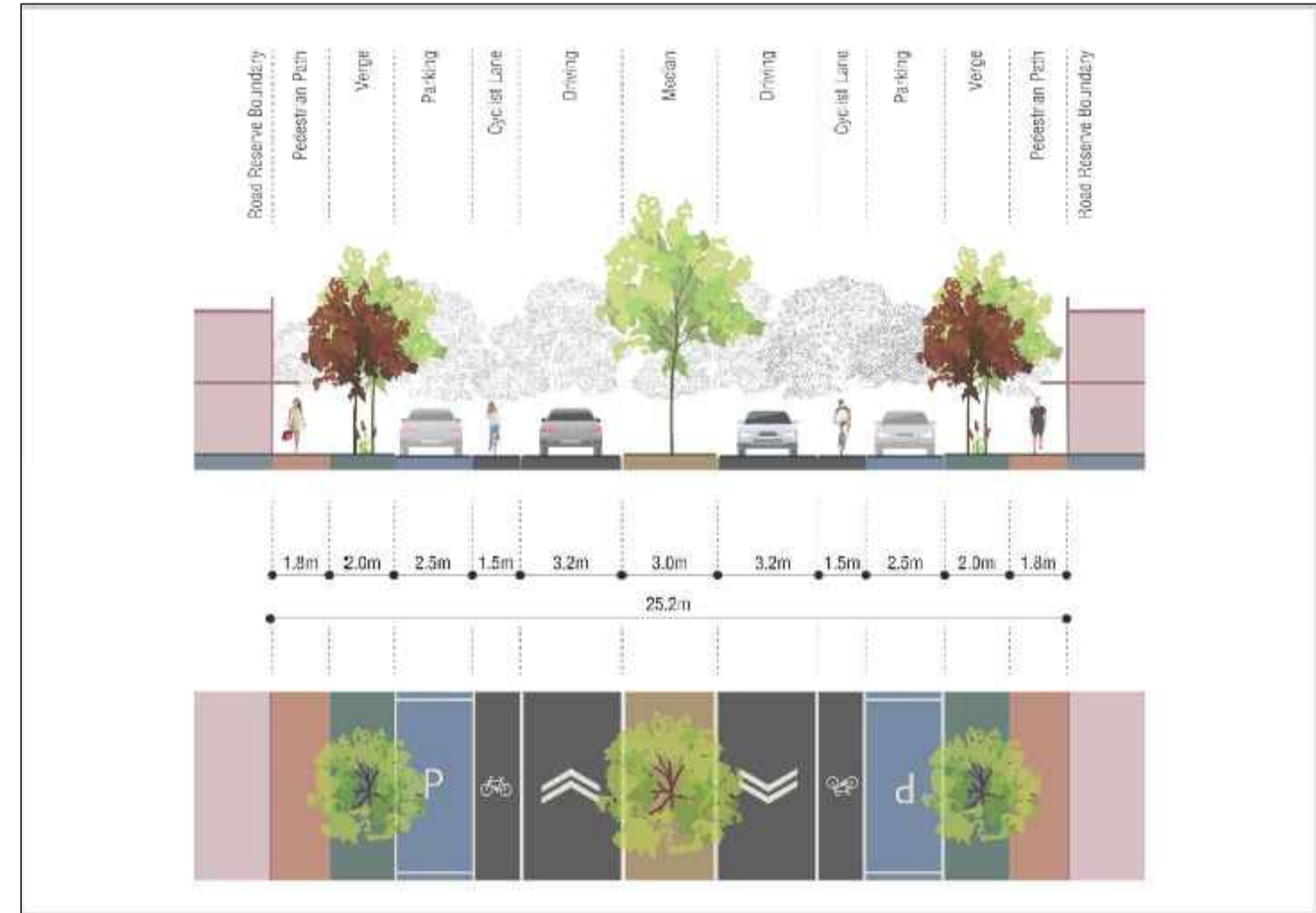








MILNER ROAD  
SCALE 1:500



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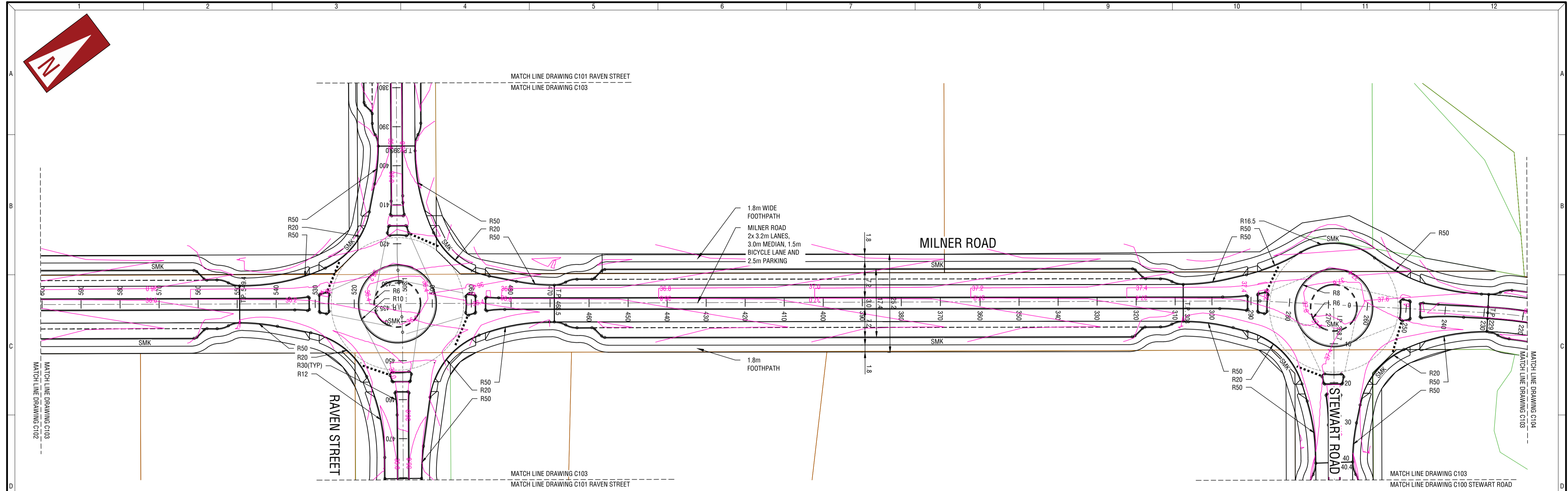
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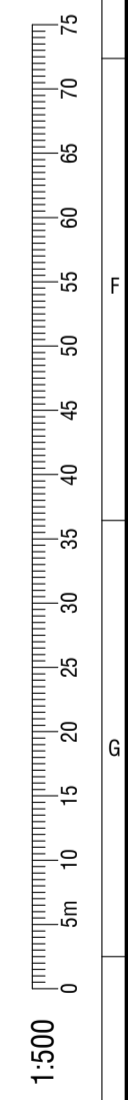
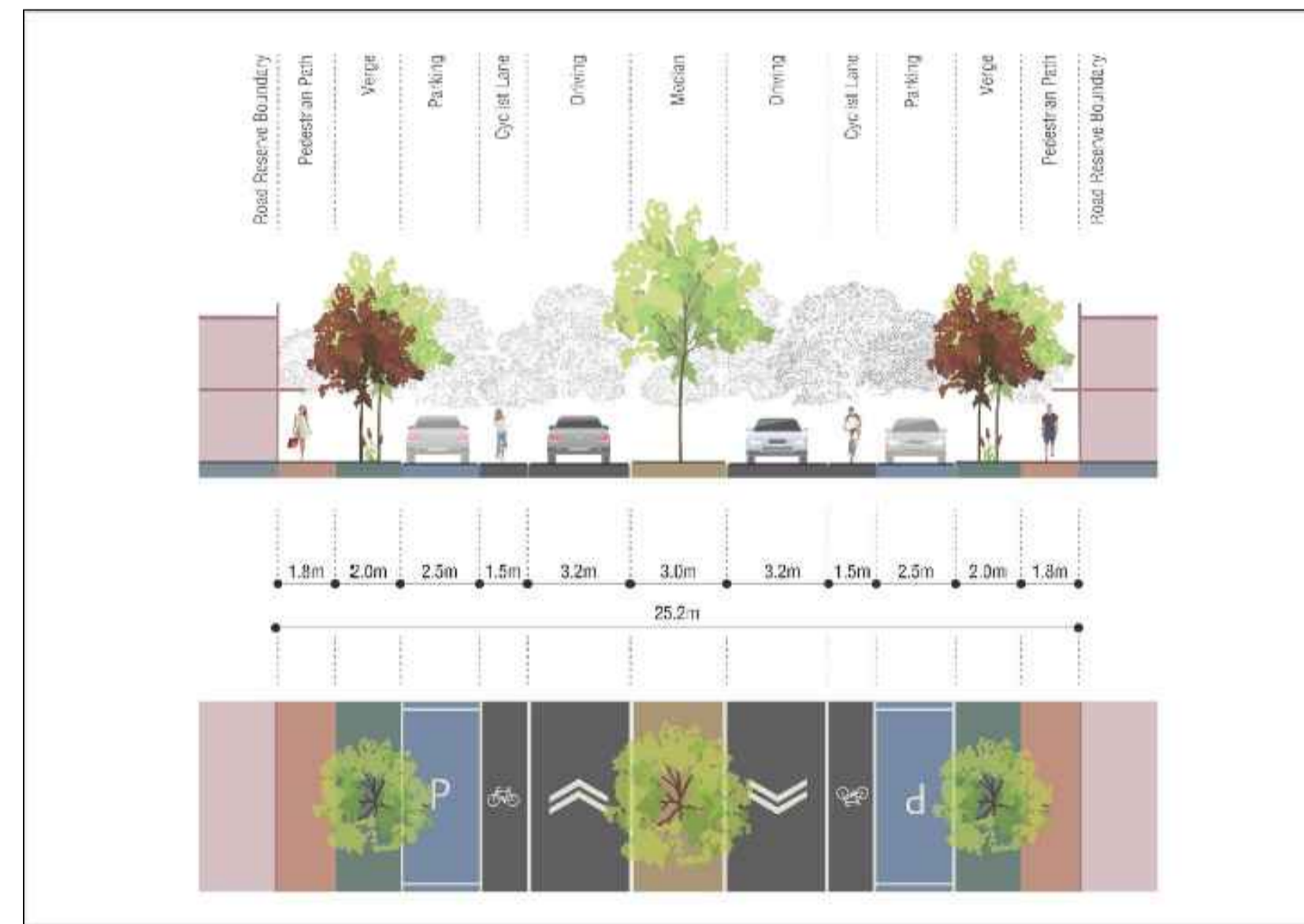
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PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	D. CENGAJ
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN MILNER ROAD SHEET 3 OF 5			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG094	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C102	C		





MILNER ROAD  
SCALE 1:500



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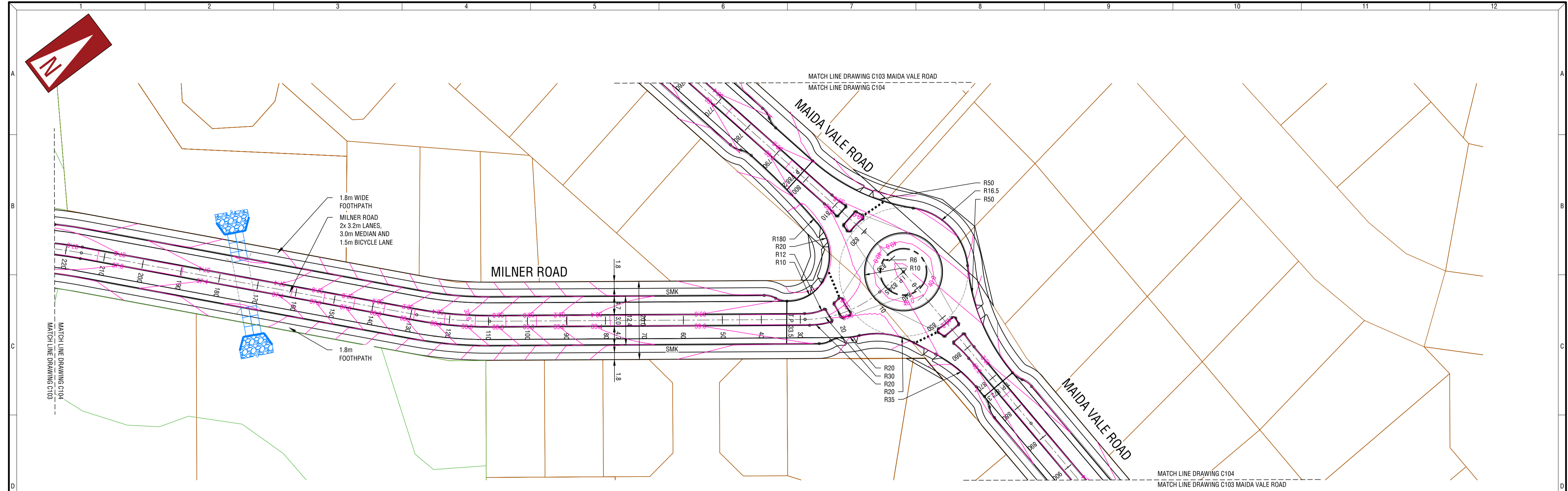
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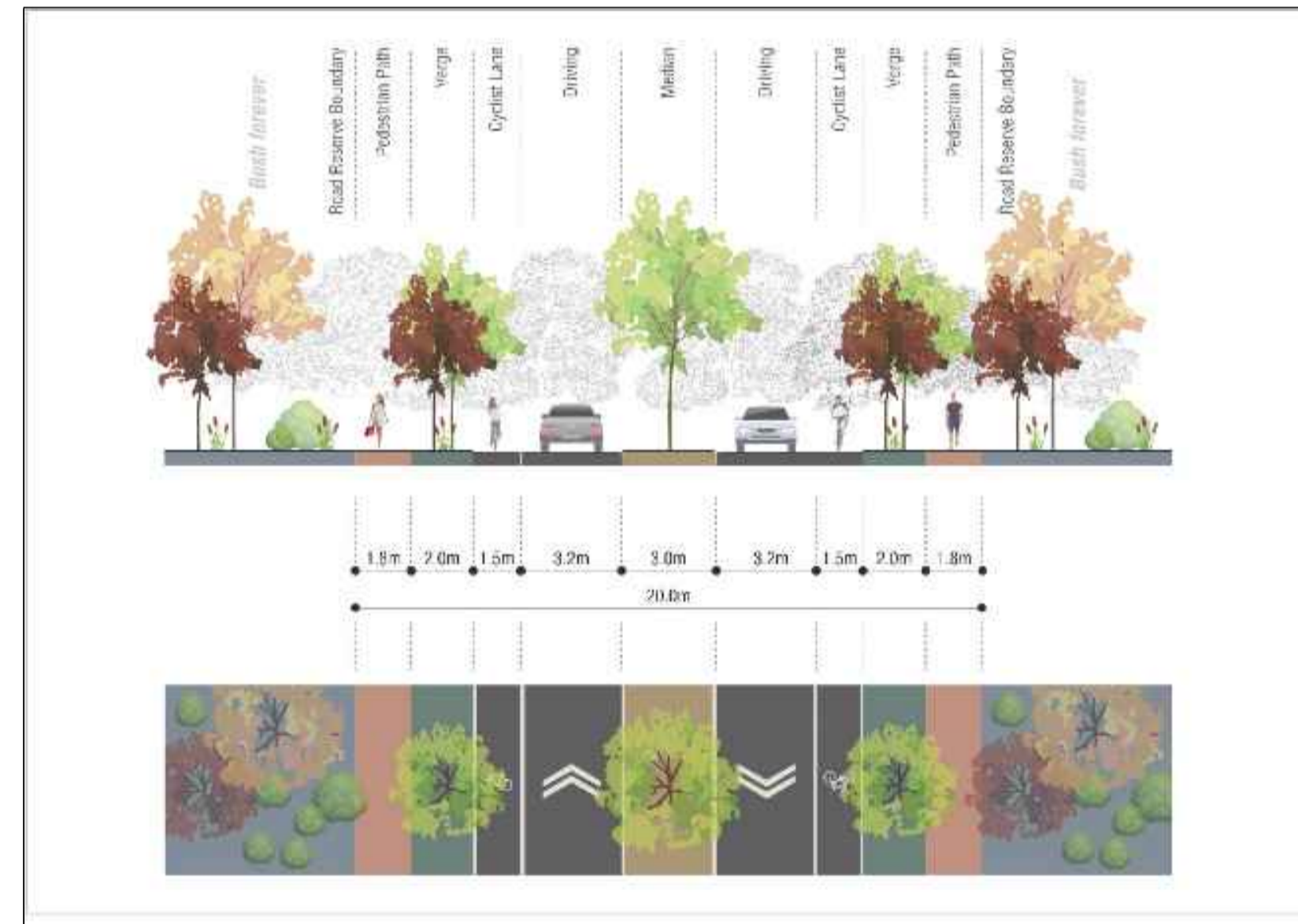
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PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	D. CENGAJ
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE	ROAD LAYOUT PLAN MILNER ROAD SHEET 4 OF 5
SHEET	A1
DATUM	PG94
WAPC No.	SCALE 1:500
PROJECT No.	KC00604.000
DRAWING No.	C103
REVISION	C





MILNER ROAD  
SCALE 1:500

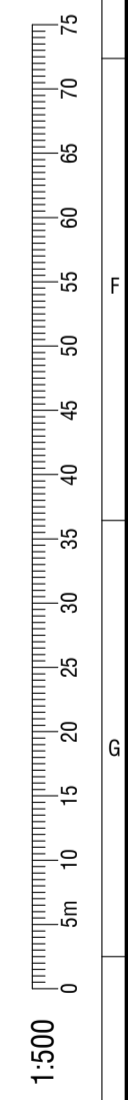


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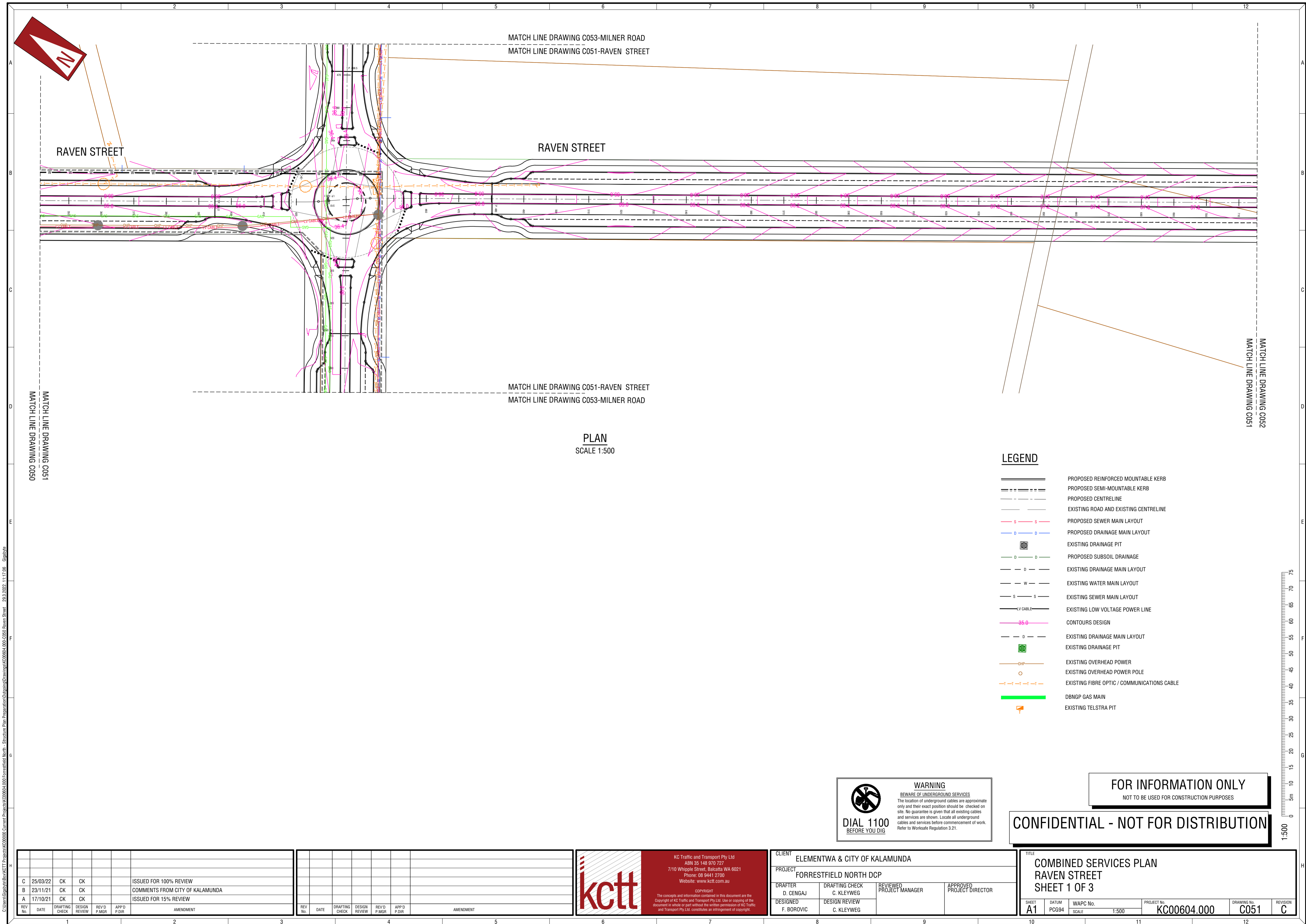
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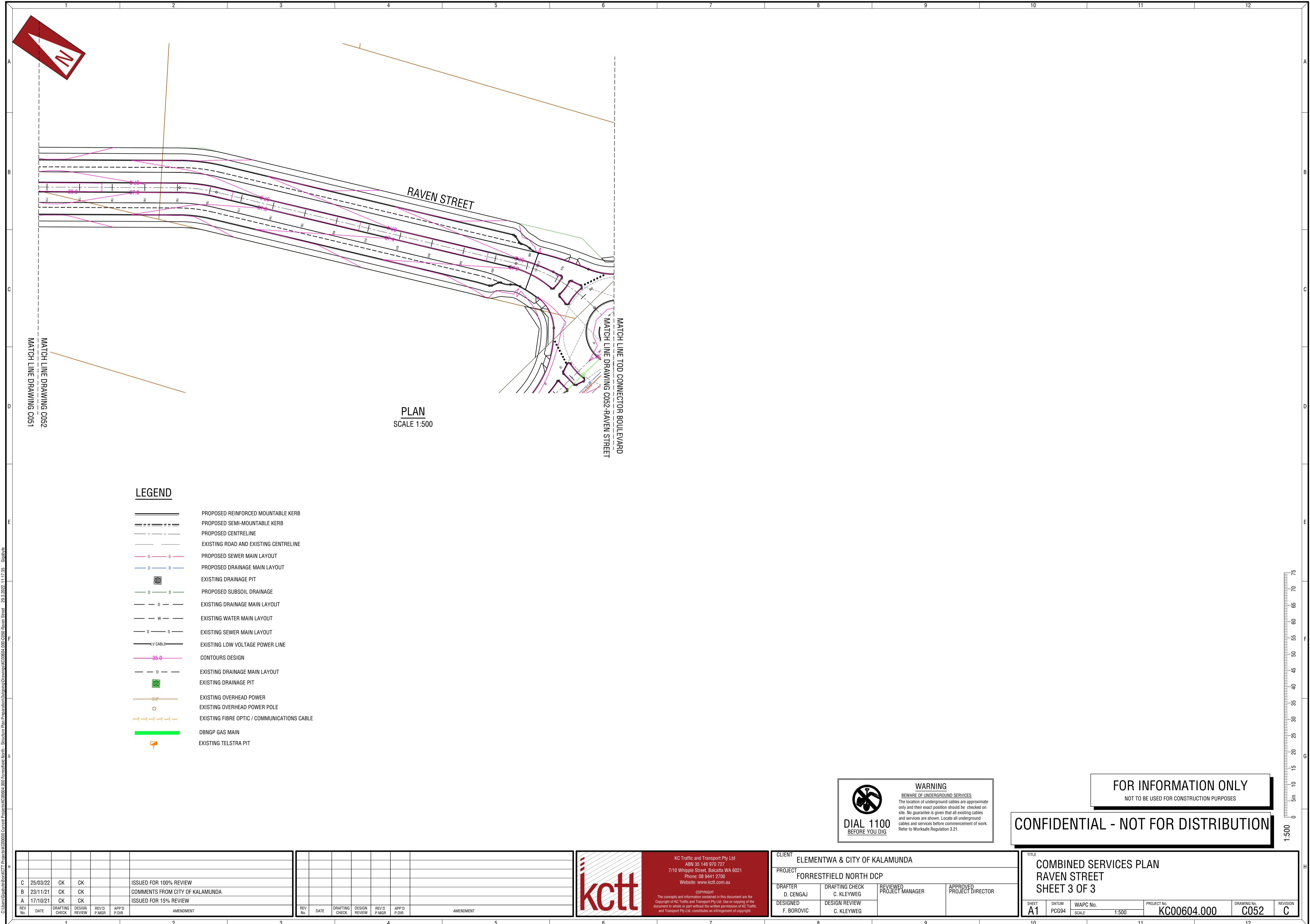
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PROJECT	FORRESTFIELD NORTH DCP
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN MILNER ROAD SHEET 5 OF 5			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C104	C		

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PLAN  
SCALE 1:500

**LEGEND**

- PROPOSED REINFORCED MOUNTABLE KERB
- - - PROPOSED SEMI-MOUNTABLE KERB
- - - PROPOSED CENTRELINE
- - - EXISTING ROAD AND EXISTING CENTRELINE
- S - S PROPOSED SEWER MAIN LAYOUT
- D - D PROPOSED DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- O - O PROPOSED SUBSOIL DRAINAGE
- - - EXISTING DRAINAGE MAIN LAYOUT
- - - EXISTING WATER MAIN LAYOUT
- - - EXISTING SEWER MAIN LAYOUT
- - - EXISTING LOW VOLTAGE POWER LINE
- 36.0 CONTOURS DESIGN
- D - D EXISTING DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- EXISTING OVERHEAD POWER
- EXISTING OVERHEAD POWER POLE
- - - EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
- DBNGP GAS MAIN
- EXISTING TELSTRA PIT

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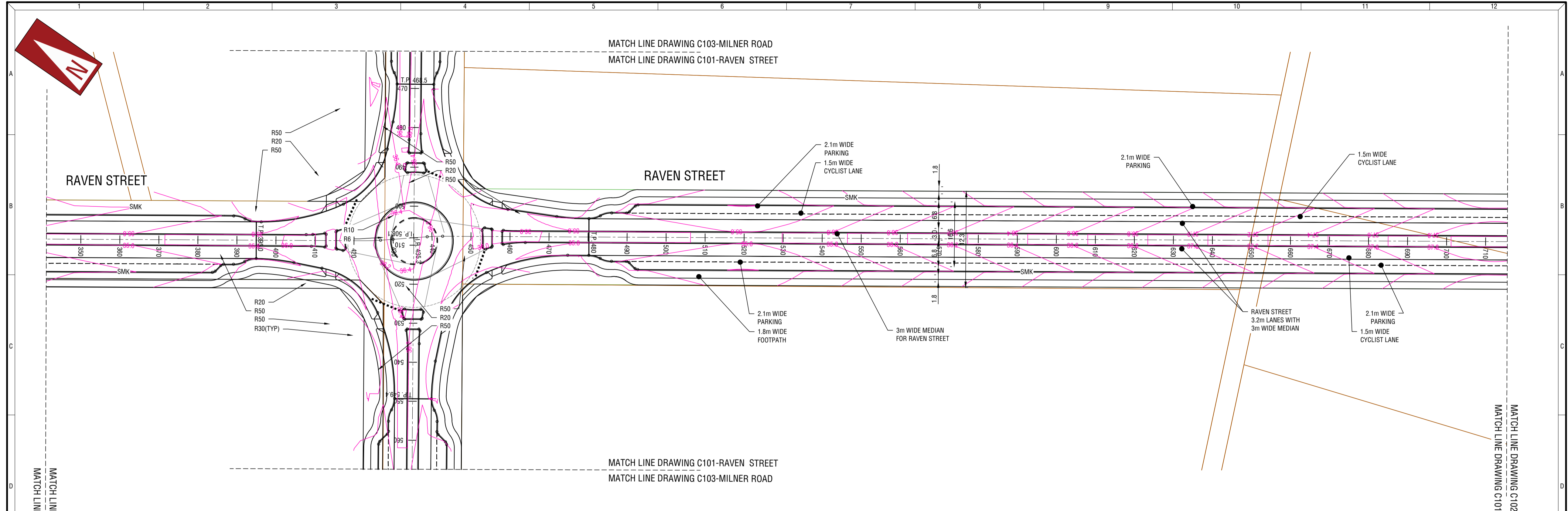
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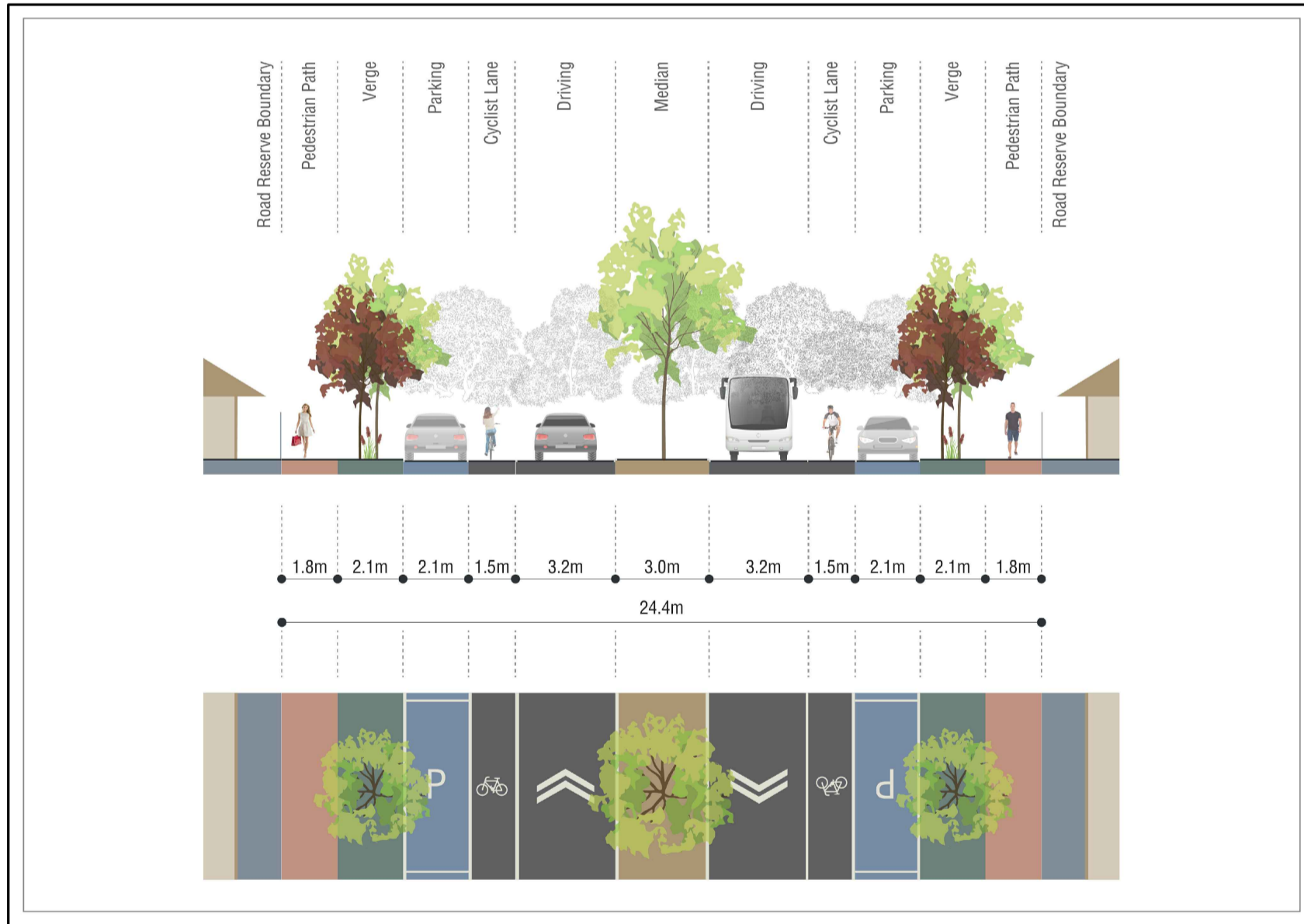
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DRAFTER	D. CENGAJ
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
COMBINED SERVICES PLAN			
RAVEN STREET			
SHEET 3 OF 3			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PCGS4	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C052	C		





PLAN  
SCALE 1:500



LEGEND

- CENTRELINE
- PROPOSED MOUNTABLE KERB (MK)
- PROPOSED SEMI-MOUNTABLE KERB (SMK)
- EXISTING ROAD
- GIVE WAY LINE
- PARKING ALIGNMENT (2.1m WIDTH U.N.D.)
- LANE LINE / SEPARATION LINE / EDGE LINE
- BROKEN LANE LINE (3m LINE WITH 6m SPACINGS)
- FOOTPATH (VARYING WIDTHS - REFER PLAN)
- TANGENT POINT
- PRAM RAMP (2.5m WIDTH U.N.D.)
- ROAD WIDENING AND PAINT MARKING TO SUIT LARGER VEHICLE TURNING RADIUS
- ROUNDABOUT DESIGN GEOMETRY

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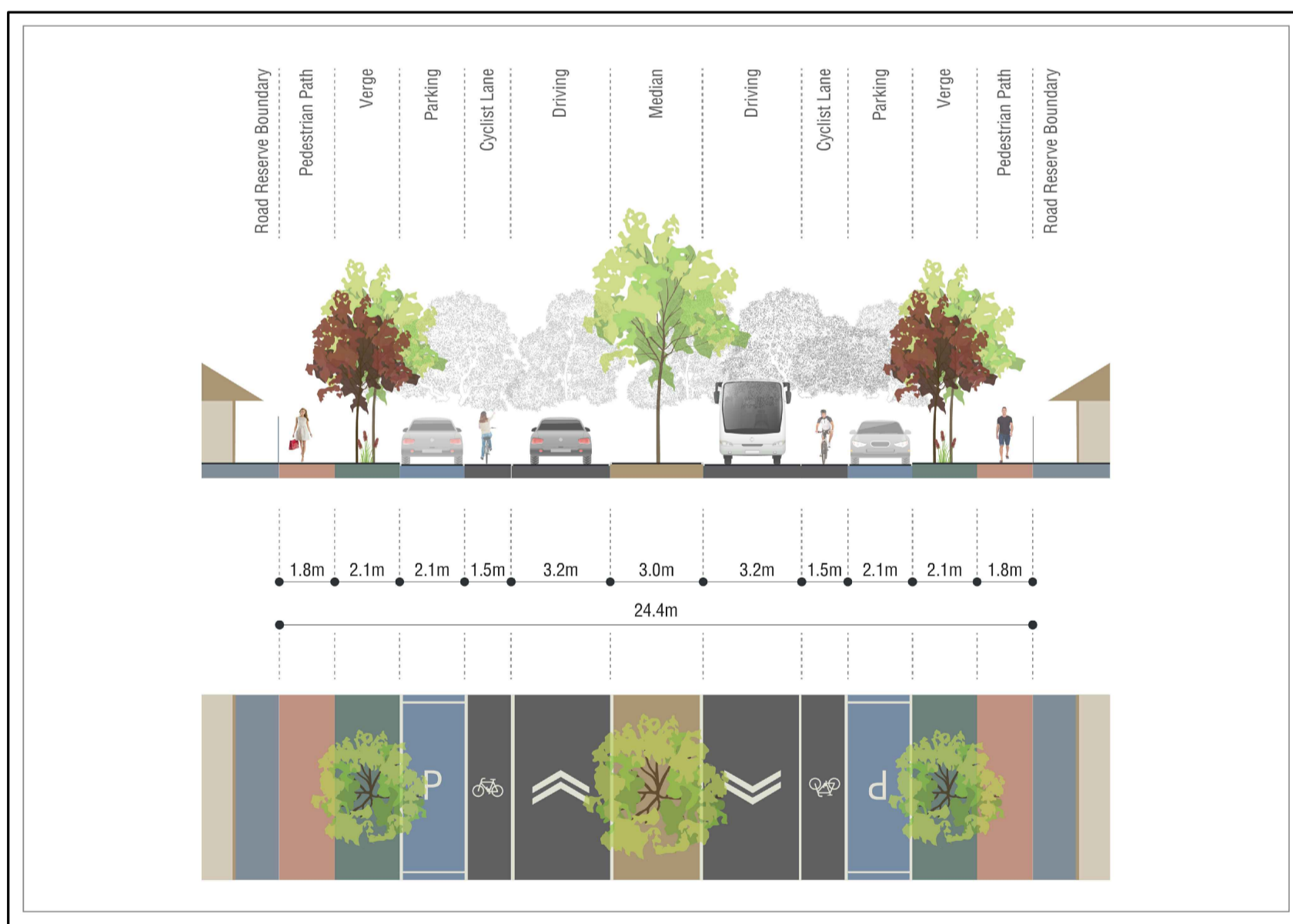
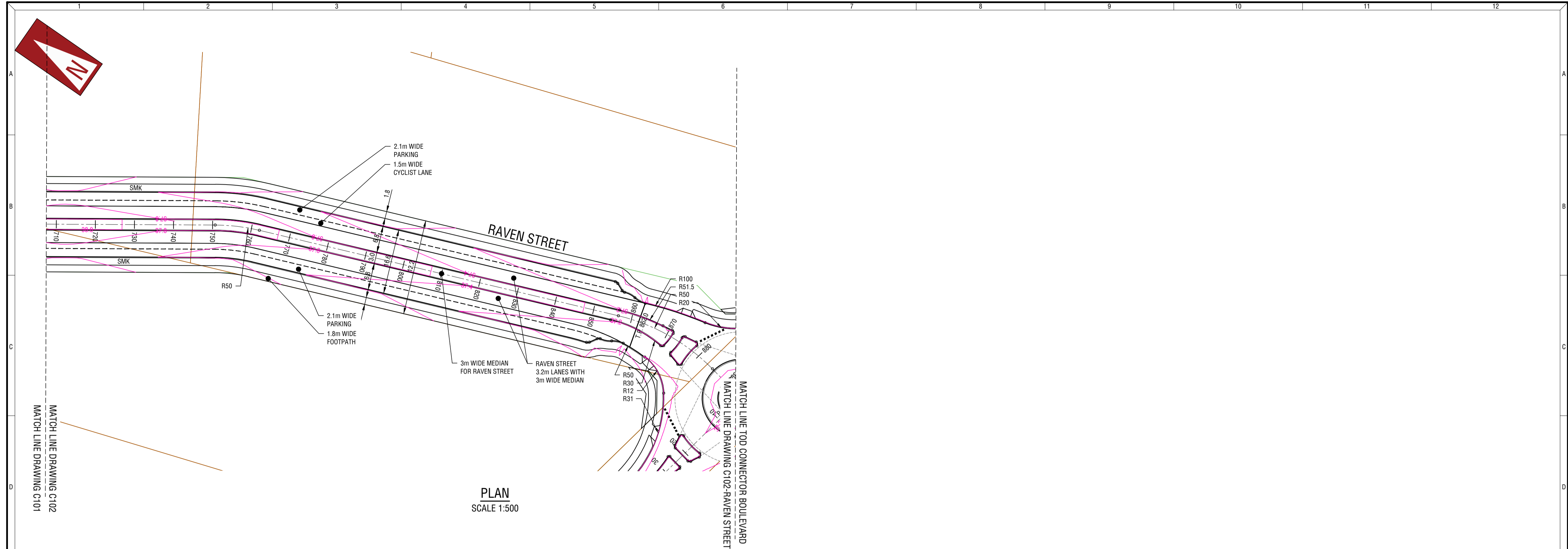
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN RAVEN STREET SHEET 1 OF 3			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG094	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C101	C		

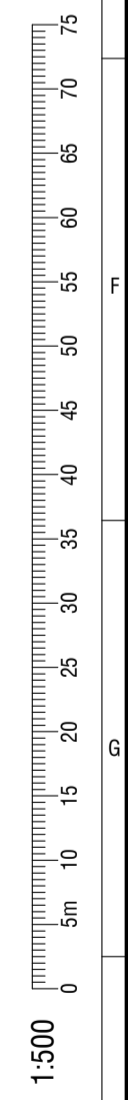


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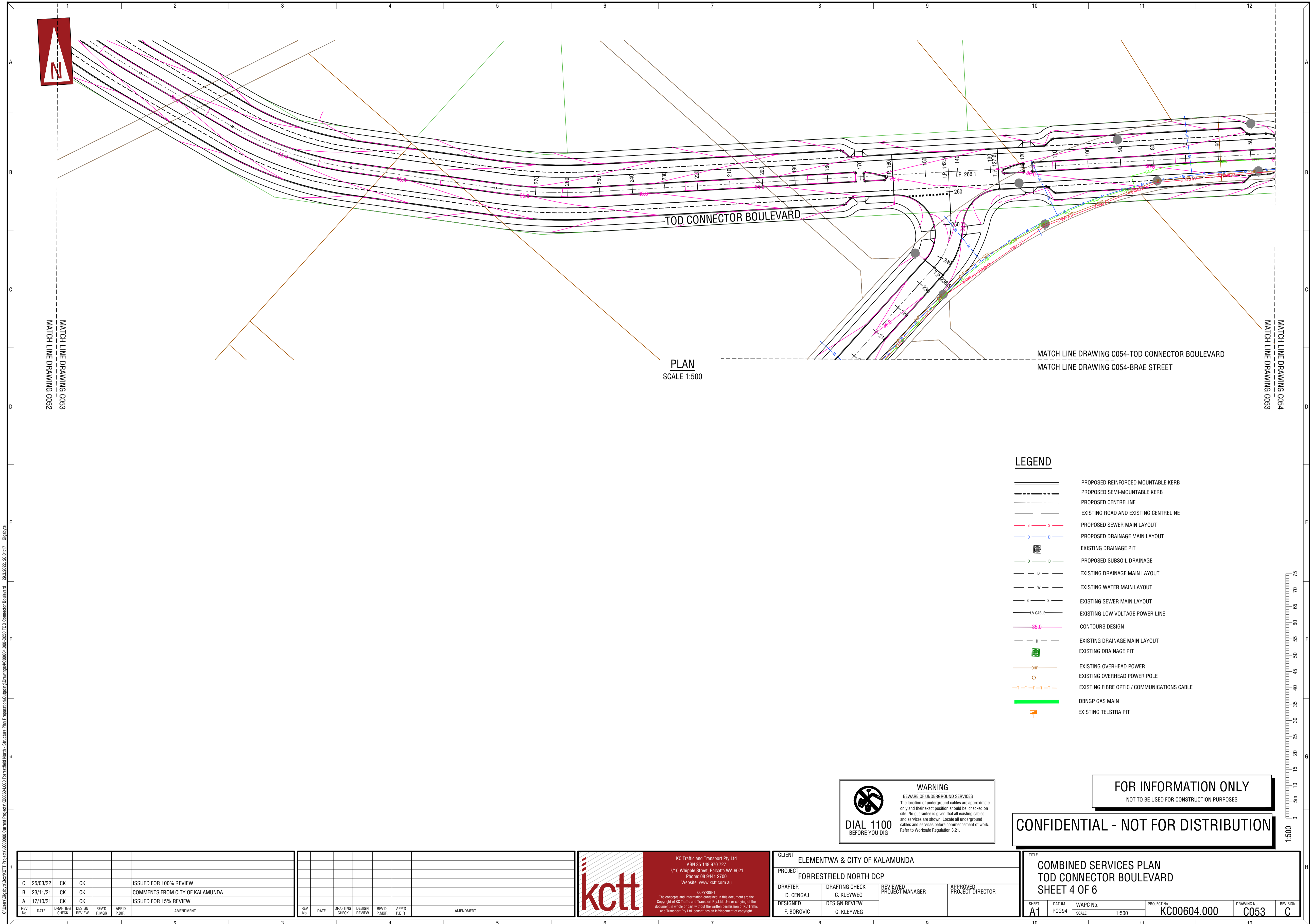
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DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE	ROAD LAYOUT PLAN RAVEN STREET SHEET 3 OF 3
SHEET	A1
DATUM	PGS94
WAPC No.	SCALE 1:500
PROJECT No.	KC00604.000
DRAWING No.	C102
REVISION	C





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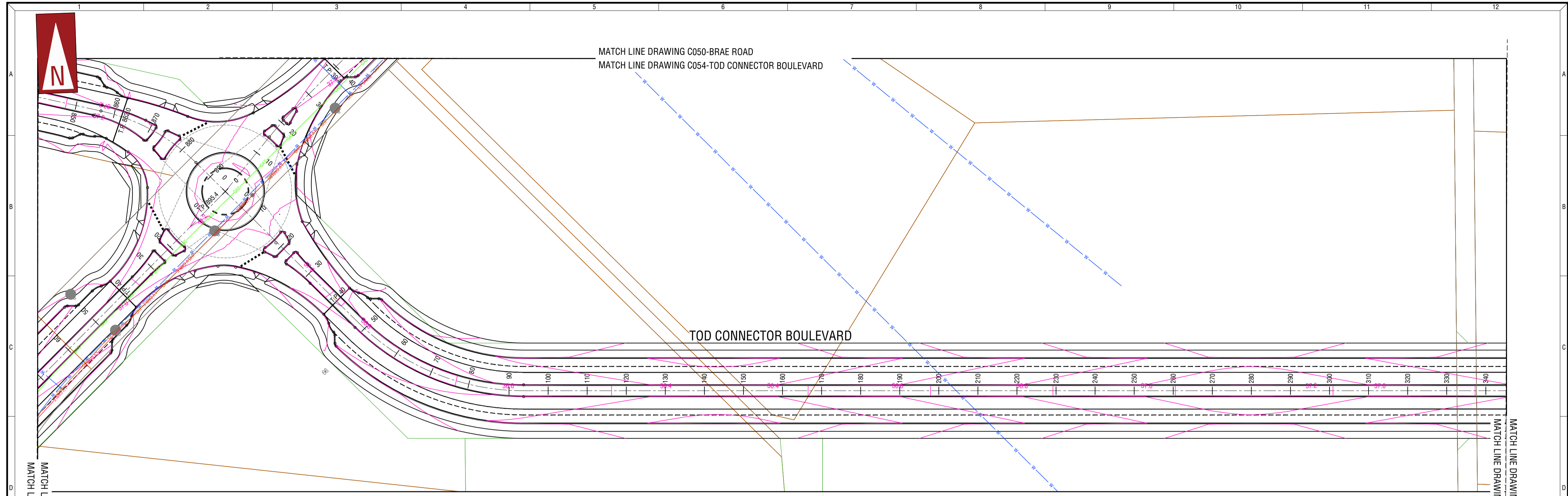
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D. CENGAJ	C. KLEYWEG		
DESIGNED	DESIGN REVIEW		
F. BOROVIC	C. KLEYWEG		

TITLE			
COMBINED SERVICES PLAN TOD CONNECTOR BOULEVARD SHEET 4 OF 6			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PC694	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C053	C		



PLAN  
SCALE 1:500

**LEGEND**

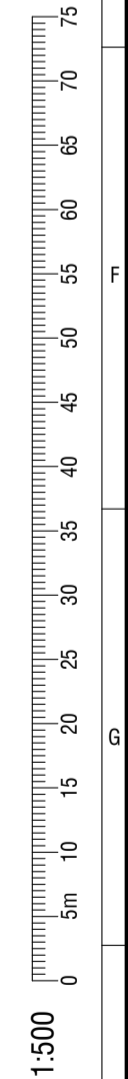
- PROPOSED REINFORCED MOUNTABLE KERB
- PROPOSED SEMI-MOUNTABLE KERB
- PROPOSED CENTRELINE
- EXISTING ROAD AND EXISTING CENTRELINE
- PROPOSED SEWER MAIN LAYOUT
- PROPOSED DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- PROPOSED SUBSOIL DRAINAGE
- EXISTING DRAINAGE MAIN LAYOUT
- EXISTING WATER MAIN LAYOUT
- EXISTING SEWER MAIN LAYOUT
- EXISTING LOW VOLTAGE POWER LINE
- CONTOURS DESIGN
- EXISTING DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- EXISTING OVERHEAD POWER
- EXISTING OVERHEAD POWER POLE
- EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
- DBNGP GAS MAIN
- EXISTING TELSTRA PIT

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C	25/03/22	CK	CK			ISSUED FOR 100% REVIEW
B	23/11/21	CK	CK			COMMENTS FROM CITY OF KALAMUNDA
A	17/10/21	CK	CK			ISSUED FOR 15% REVIEW

REV No.	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P. MOD.	APP'D P. DIR.	AMENDMENT

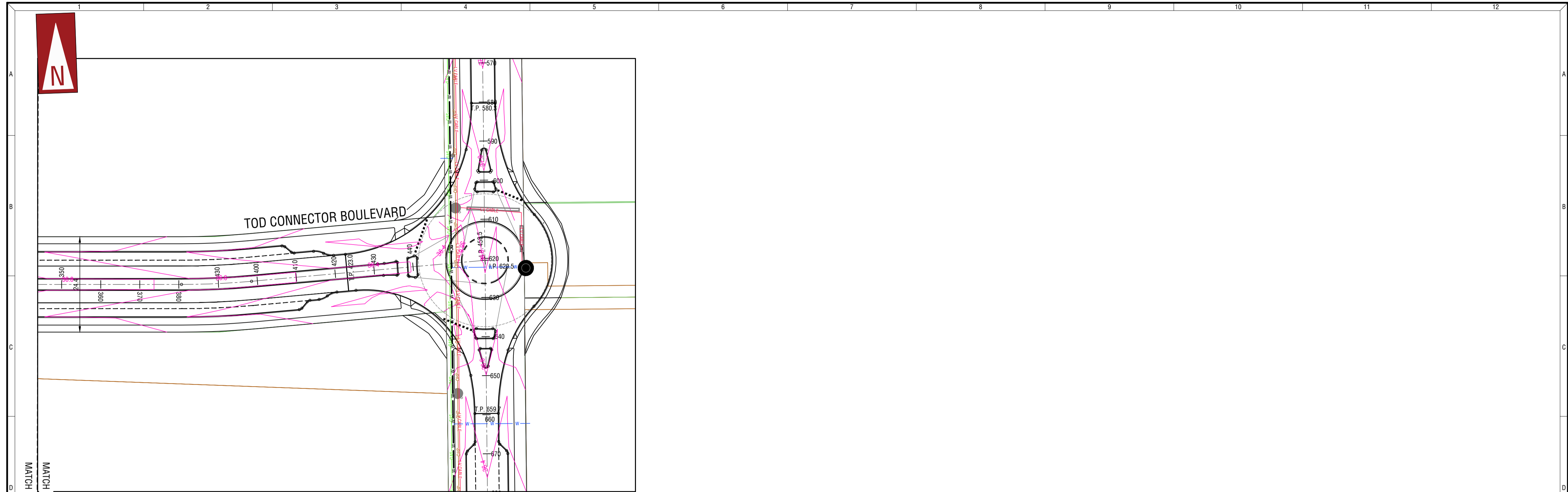
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CLIENT	ELEMENTWA & CITY OF KALAMUNDA		
PROJECT	FORRESTFIELD NORTH DCP		
DRAFTER	DRAFTING CHECK	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED	DESIGN REVIEW		
F. BOROVIC	C. KLEYWEG		

TITLE			
COMBINED SERVICES PLAN TOD CONNECTOR BOULEVARD SHEET 5 OF 6			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PC694	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C054	C		





PLAN  
SCALE 1:500

MATCH LINE DRAWING C050  
MATCH LINE DRAWING C054

**LEGEND**

- PROPOSED REINFORCED MOUNTABLE KERB
- - - PROPOSED SEMI-MOUNTABLE KERB
- - - PROPOSED CENTRELINE
- - - EXISTING ROAD AND EXISTING CENTRELINE
- - - PROPOSED SEWER MAIN LAYOUT
- - - PROPOSED DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- - - PROPOSED SUBSOIL DRAINAGE
- - - EXISTING DRAINAGE MAIN LAYOUT
- - - EXISTING WATER MAIN LAYOUT
- - - EXISTING SEWER MAIN LAYOUT
- - - EXISTING LOW VOLTAGE POWER LINE
- - - CONTOURS DESIGN
- - - EXISTING DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- - - EXISTING OVERHEAD POWER
- EXISTING OVERHEAD POWER POLE
- - - EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
- - - DBNGP GAS MAIN
- EXISTING TELSTRA PIT

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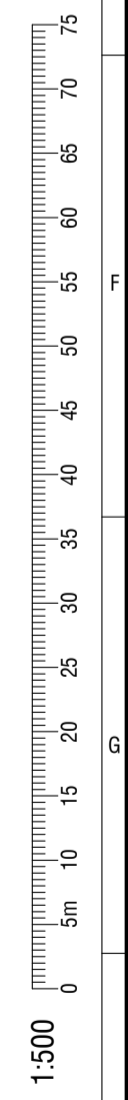
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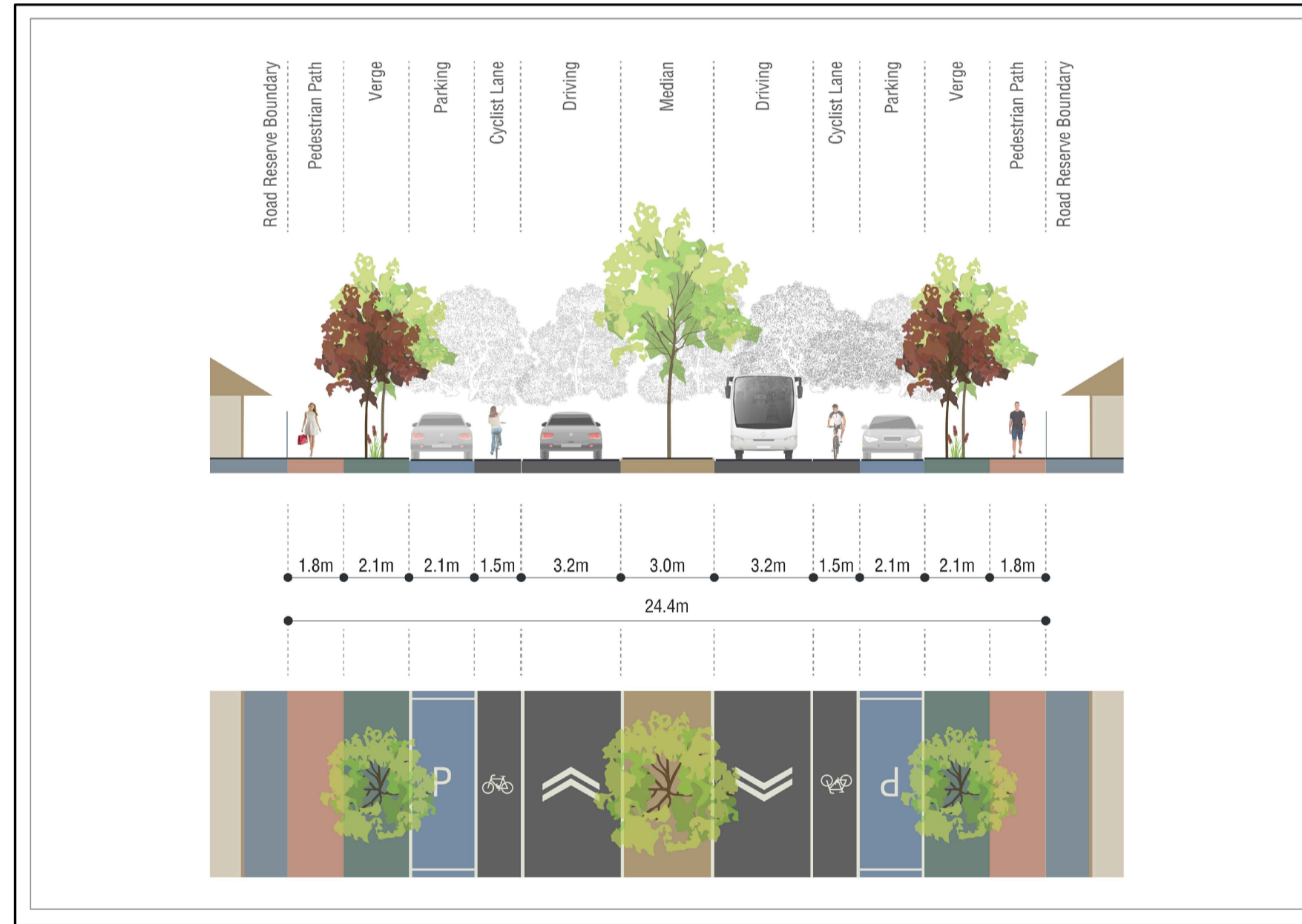
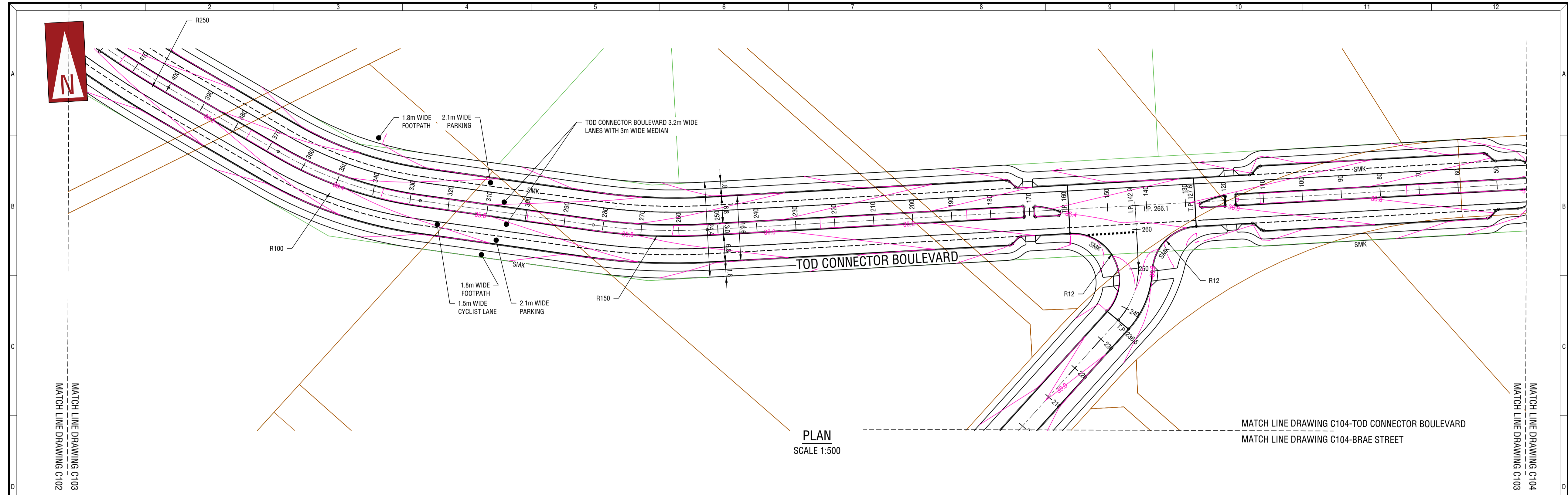
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PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	D. CENGAJ
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
COMBINED SERVICES PLAN TOD CONNECTOR BOULEVARD SHEET 6 OF 6			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PC694	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C055	C		



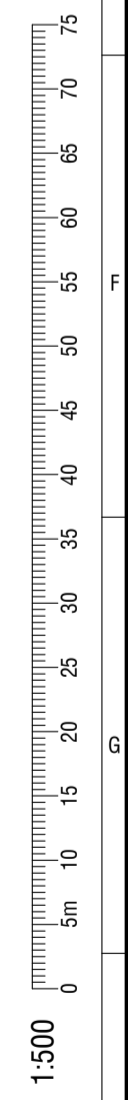


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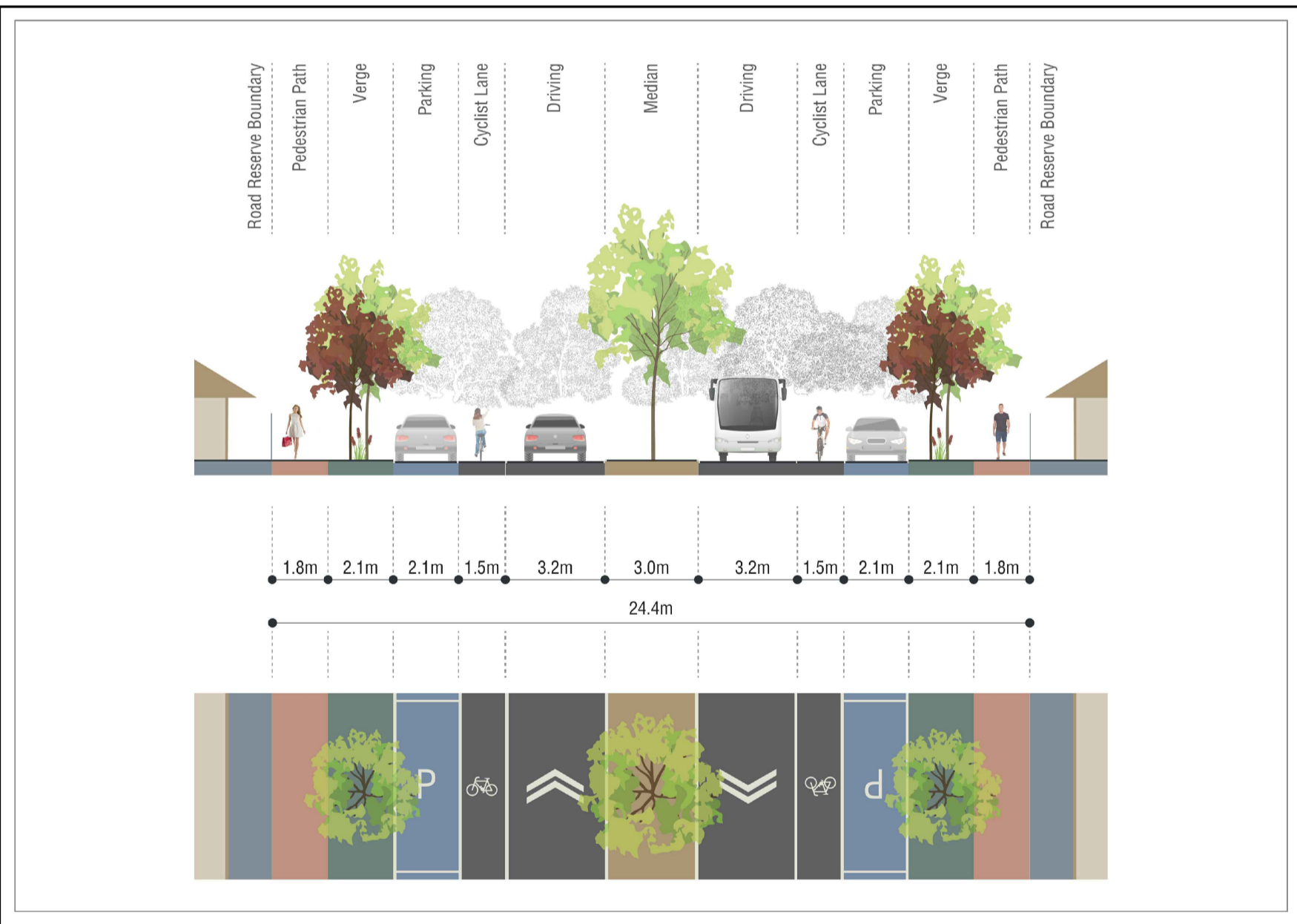
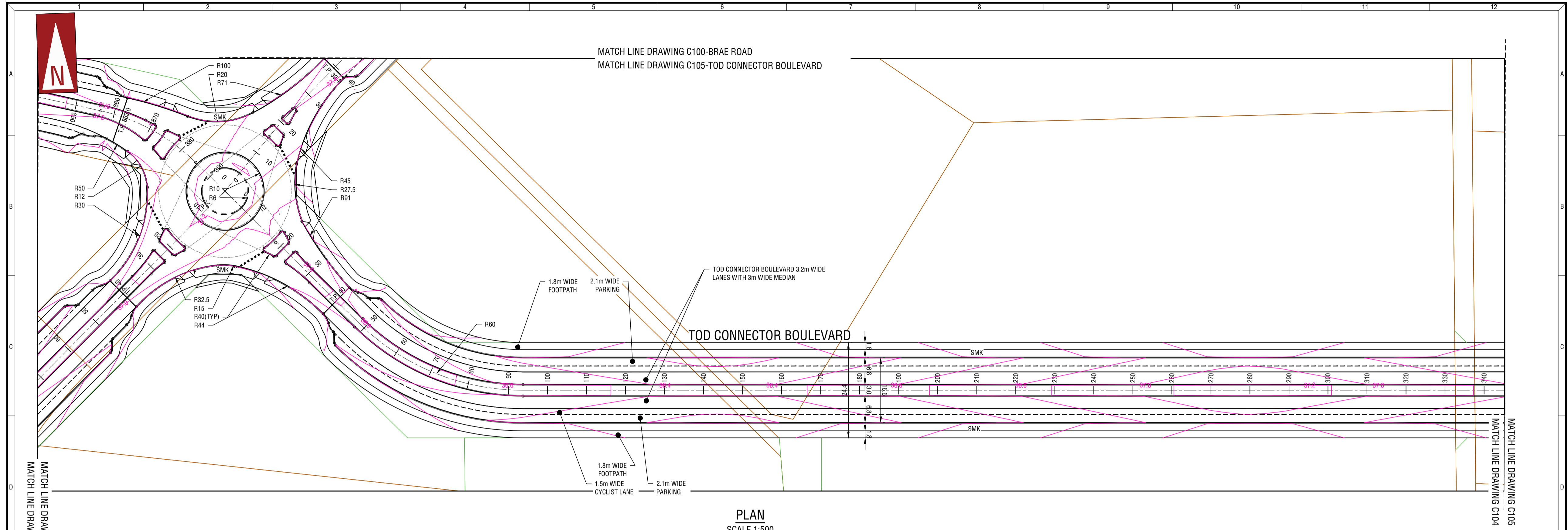
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PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	D. CENGAJ
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN TOD CONNECTOR BOULEVARD SHEET 4 OF 6			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PC694	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C103	C		





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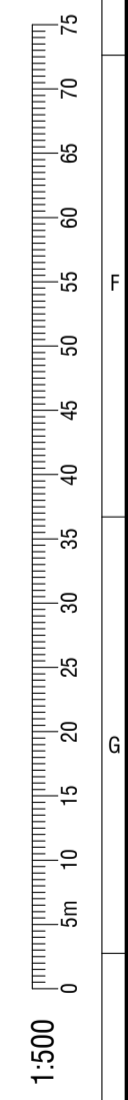
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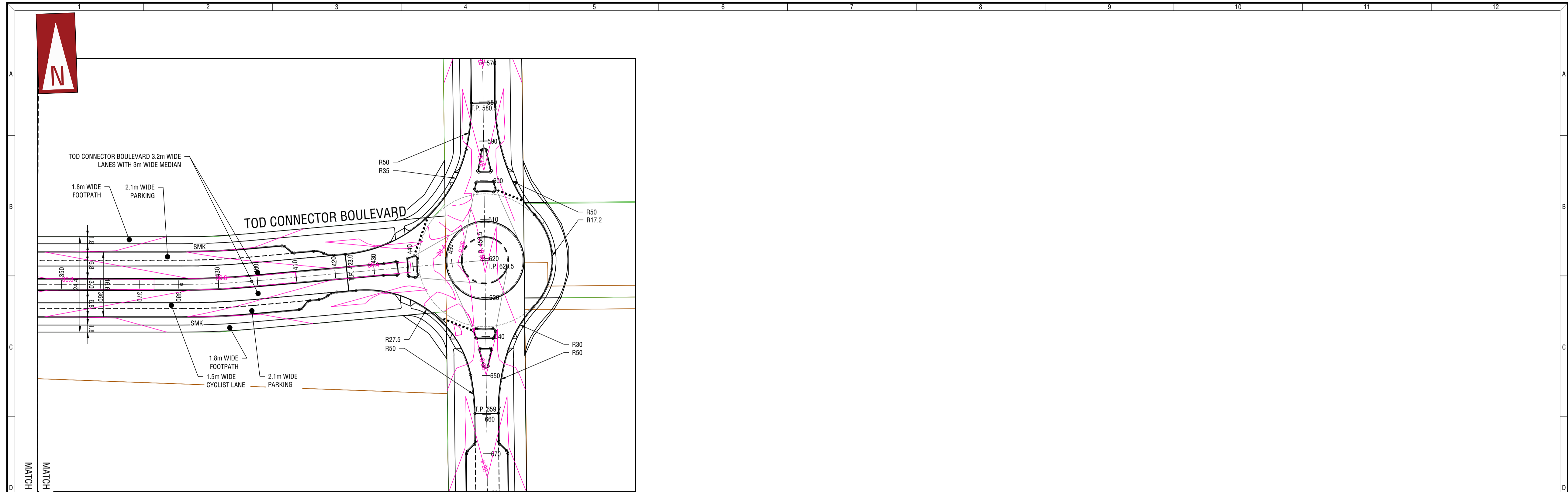
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PROJECT FORRESTFIELD NORTH DCP			
DRAFTER D. CENGAJ	DRAFTING CHECK C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

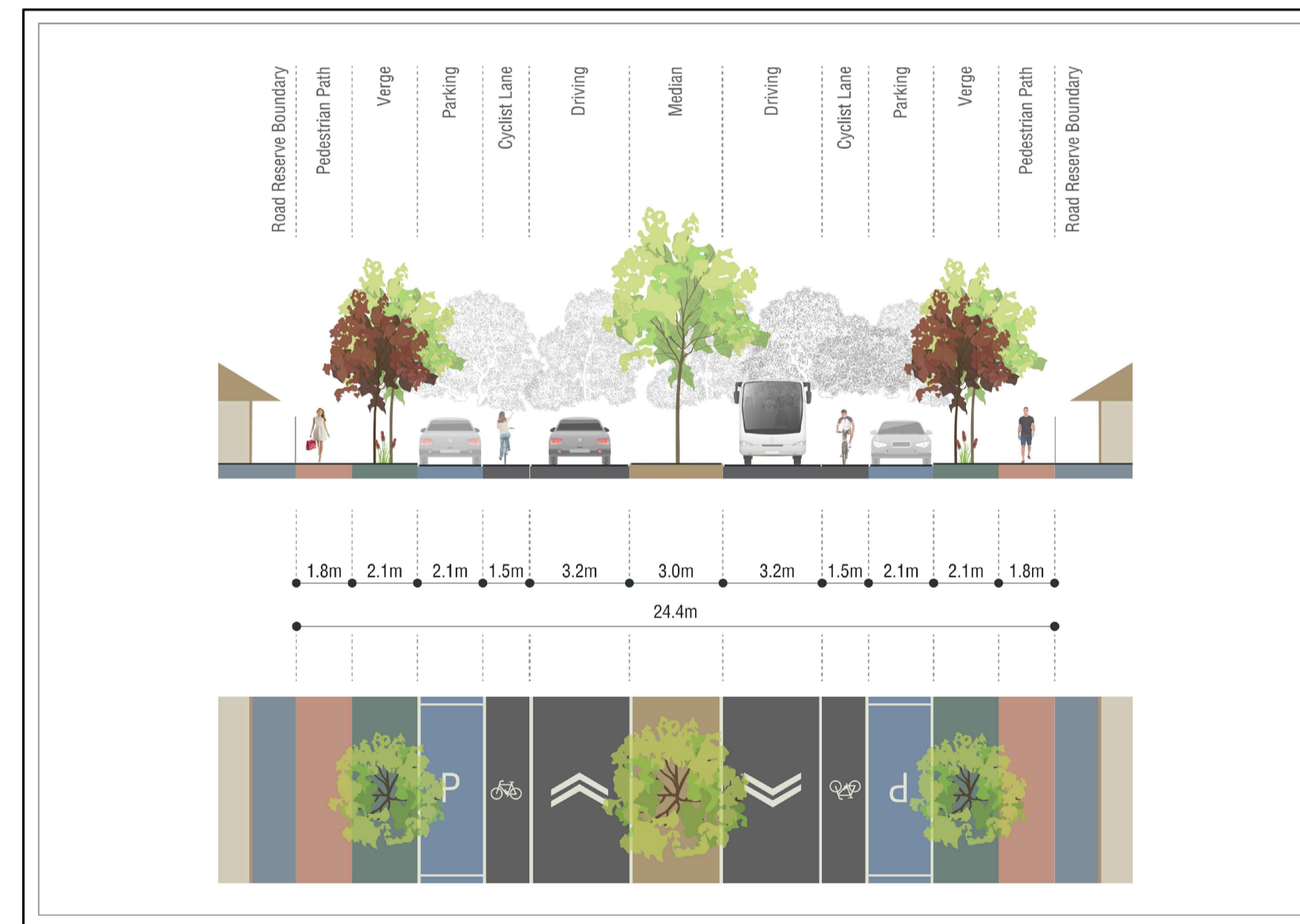
TITLE ROAD LAYOUT PLAN TOD CONNECTOR BOULEVARD SHEET 5 OF 6			
SHEET A1	DATUM PC94	WAPC No. SCALE 1:500	PROJECT No. KCO0604.000
DRAWING No. C104	REVISION C		







PLAN  
SCALE 1:500

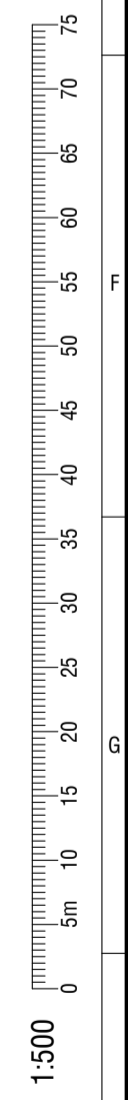


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MATCH LINE DRAWING C105  
MATCH LINE DRAWING C104

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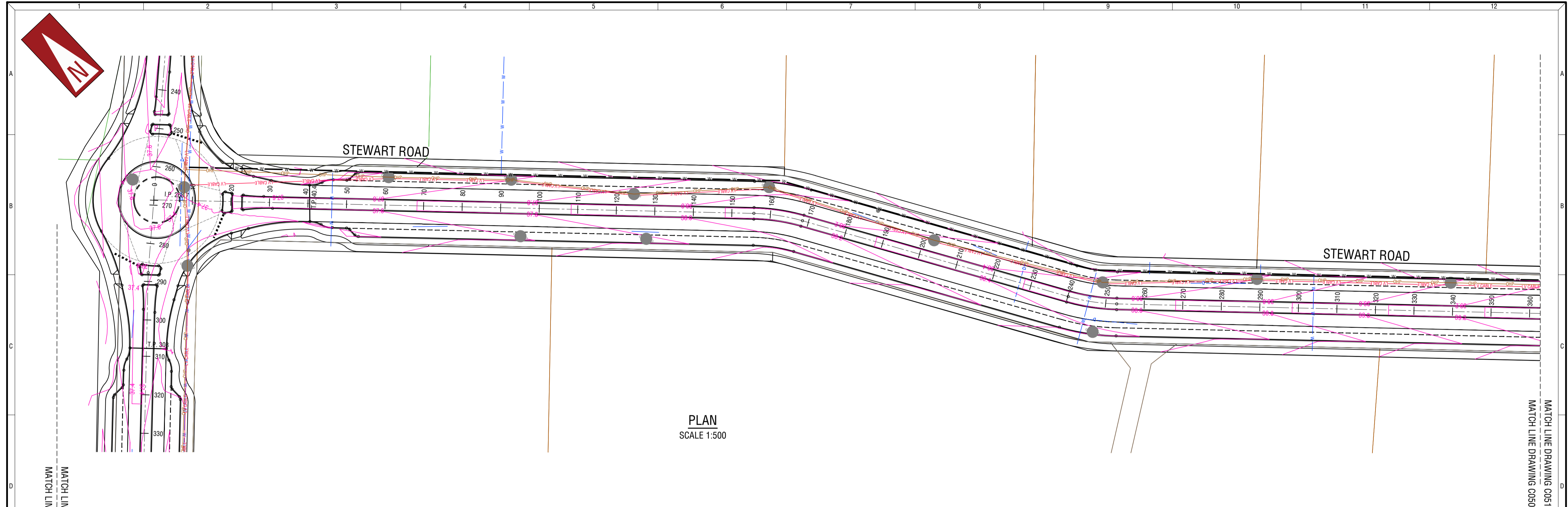
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PROJECT FORRESTFIELD NORTH DCP			
DRAFTER D. CENGAJ	DRAFTING CHECK C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE ROAD LAYOUT PLAN TOD CONNECTOR BOULEVARD SHEET 6 OF 6			
SHEET A1	DATUM PC694	WAPC No. SCALE 1:500	PROJECT No. KC00604.000
DRAWING No. C105	REVISION C		





PLAN  
SCALE 1:500

**NOTES**

1. GENERAL
  - 1.1. LEVELS ARE REDUCED FROM A.H.D.
  - 1.2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL K000604.000 DRAWINGS AND THE SPECIFICATION.
  - 1.3. THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY AND PROTECT ALL VEGETATION ON SITE.
  - 1.4. THE CONTRACTOR SHALL ENSURE THAT ALL LEVELS ARE SET-OUT BY LICENSED SURVEYOR.
  - 1.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING RESIDENCES AT ALL TIMES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
  - 1.6. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DESIGN DRAWINGS OR CLASHES WITH OTHER SERVICES AS SOON AS PRACTICALLY POSSIBLE TO THE SUPERINTENDENT.
2. ROADWORKS
  - 2.1. ALL CORNER SWEEPS SHALL BE 12.0m RADIUS KEYED UNLESS OTHERWISE SHOWN
  - 2.2. ALL KERBS WITH A RADIUS LESS THAN R40 NEED TO BE KEYED.
  - 2.3. ALL KERBS SHALL BE MOUNTABLE UNLESS OTHERWISE SHOWN.
  - 2.4. ALL SWEEPS SHALL BE SEMI-MOUNTABLE UNLESS OTHERWISE SHOWN.
  - 2.5. ALL PARKING BAY KERBING SHALL BE BARRIER UNLESS OTHERWISE SHOWN.
  - 2.6. PAVEMENT WIDTH SHALL BE AS SHOWN ON THE DRAWINGS AND SHALL BE MEASURED BETWEEN KERBS.
  - 2.7. ALL ROAD VERGES & DISTURBED AREAS SHALL BE STABILISED BY APPLICATION OF SEEDED HYDRO MULCH.
  - 2.8. THE CONTRACTOR SHALL SAW-CUT EXISTING PAVEMENT IN A STRAIGHT LINE REMOVE EXISTING KERB BETWEEN INTERSECTION SWEEPS AND MAKE SMOOTH CONNECTION.
  - 2.9. THE CONTRACTOR SHALL ENSURE IRRIGATION DUCTS ARE NOT TERMINATED UNDER FOOTPATHS.
  - 2.10. FOR ROAD PAVEMENTS AND KERB DETAILS, THE CONTRACTOR SHALL REFER TO STANDARD DRAWINGS.
  - 2.11. THE CONTRACTOR SHALL REINSTATE ALL PUBLIC OR PRIVATE WORKS OF ADJOINING LAND THAT HAS BEEN AFFECTED BY THE WORKS TO THE ORIGINAL OR SUPERIOR CONDITION OF ITS ORIGINAL STATE.
  - 2.12. EXISTING TEMPORARY TURNAROUND ON LOT 241 VIVID CHASE IS ASSUMED TO BE REMOVED BY OTHERS.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS IN THEIR ENTIRETY AND THE SPECIFICATION
4. PRIOR TO ANY ROAD CONSTRUCTION, ALL SITE AREAS SHALL BE CLEARED, AND ANY TOPSOIL SHALL BE STOCKPILED FOR USE IN SWALES AND BATTERS.
5. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
6. ALL LEVELS SHOWN ARE FINISHED SURFACE LEVELS AFTER FINAL WORKS.
7. SOIL STABILISATION TO BE AS DIRECTED.
8. DUST CONTROL TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. VERGES SHALL BE GRADED TO SUIT THE EXISTING SURFACE LEVELS AT BOUNDARIES AND THE REQUIREMENTS FOR SWALES.
10. ALL DESIGN LEVELS AND SETOUT POINTS SHALL BE LOCATED FROM BENCH MARKS ESTABLISHED BY A LICENSED SURVEYOR.
11. THE CONTRACTOR SHALL CERTIFY THAT EARTHWORKS HAVE BEEN PLACED AND COMPACTED IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATIONS.
12. LEVELS ARE RELATIVE TO AHD.
13. THE CONTRACTOR SHALL OBTAIN UP-TO-DATE DBYD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
14. FOR ANY SERVICES THAT WILL BE IMPACTED BY THE PROPOSED WIDENING, THE CONTRACTOR SHALL CONFIRM THE EXISTING DEPTH OF THE SERVICE AND THE ALIGNMENT IS SUITABLE FOR THE PROPOSED WORKS.
15. THE CONTRACTOR SHALL REINSTATE ALL EXISTING CROSSOVER THAT CONNECT AN EXISTING HABITED PROPERTY, OR ANY PROPERTY CAPABLE OF HABITATION.
16. BUS EMBAYMENTS AND BUS SHELTERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TRANSPERTH / PUBLIC TRANSPORT AUTHORITY STANDARDS AND REQUIREMENTS.
17. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL ROAD RESERVE BOUNDARIES, AS THE LOCATION OF SOME BOUNDARIES ARE REQUIRED TO CHANGE AS A RESULT OF FUTURE LAND DEVELOPMENT CONDITIONS.

**LEGEND**

- — — — — PROPOSED REINFORCED MOUNTABLE KERB
- — — — — PROPOSED SEMI-MOUNTABLE KERB
- — — — — PROPOSED CENTRELINE
- — — — — EXISTING ROAD AND EXISTING CENTRELINE
- — — — — PROPOSED SEWER MAIN LAYOUT
- — — — — PROPOSED DRAINAGE MAIN LAYOUT
- — — — — EXISTING DRAINAGE PIT
- — — — — PROPOSED SUBSOIL DRAINAGE
- — — — — EXISTING DRAINAGE MAIN LAYOUT
- — — — — EXISTING WATER MAIN LAYOUT
- — — — — EXISTING SEWER MAIN LAYOUT
- — — — — EXISTING LOW VOLTAGE POWER LINE
- — — — — V-CABLE
- — — — — CONTOURS DESIGN
- — — — — EXISTING DRAINAGE MAIN LAYOUT
- — — — — EXISTING DRAINAGE PIT
- — — — — EXISTING OVERHEAD POWER
- — — — — EXISTING OVERHEAD POWER POLE
- — — — — EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
- — — — — DBNGP GAS MAIN
- — — — — EXISTING TELSTRA PIT

MATCH LINE DRAWING C050-STEWART ROAD

MATCH LINE DRAWING C051

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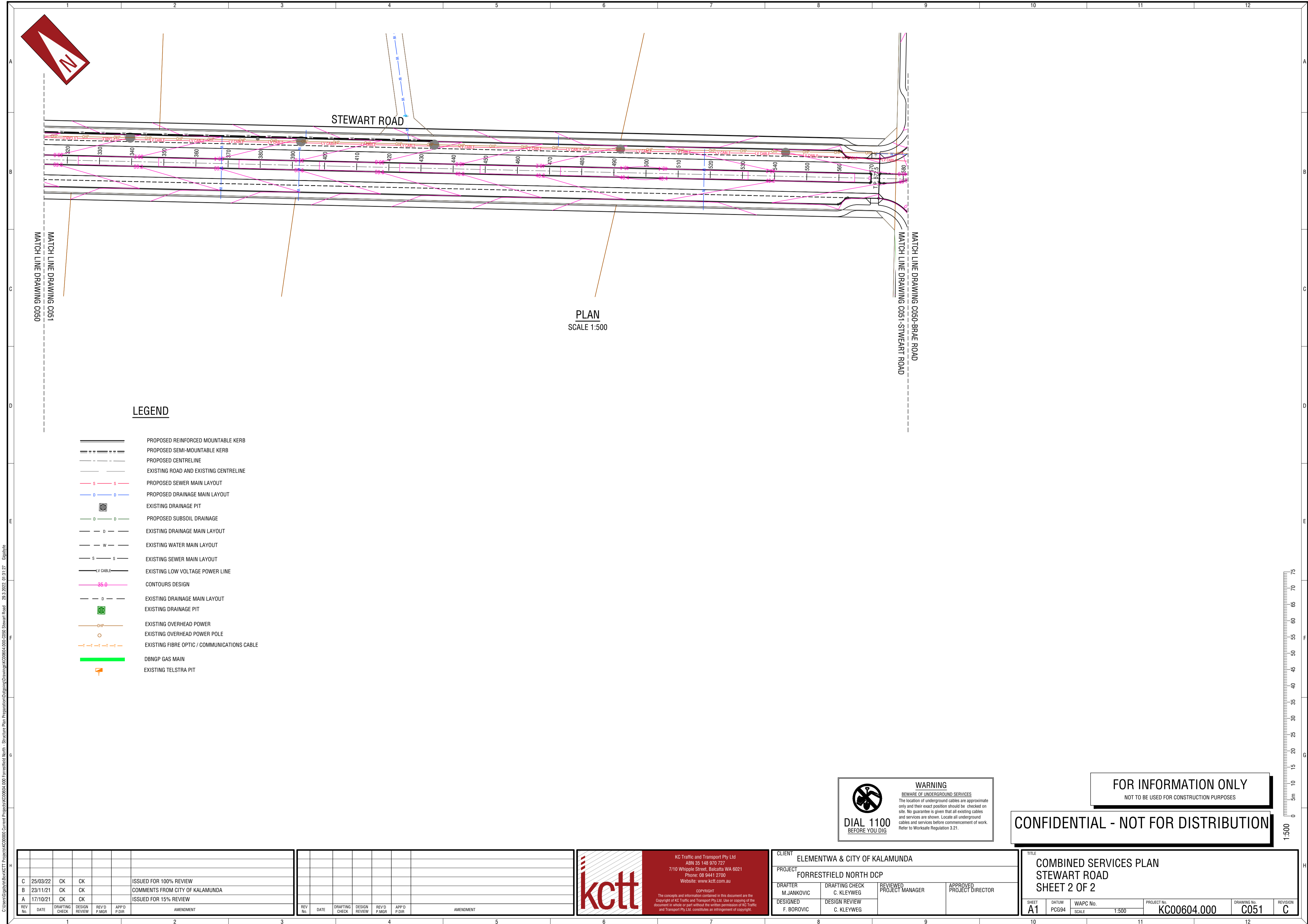
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PROJECT	FORRESTFIELD NORTH DCP		
DRAFTER	DRAFTING CHECK	REVIEWED	APPROVED
M.JANKOVIC	C. KLEYWEG	PROJECT MANAGER	PROJECT DIRECTOR
DESIGNED	DESIGN REVIEW		
F. BOROVIC	C. KLEYWEG		

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TITLE	COMBINED SERVICES PLAN STEWART ROAD SHEET 1 OF 2		
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
			DRAWING No. C050
			REVISION C



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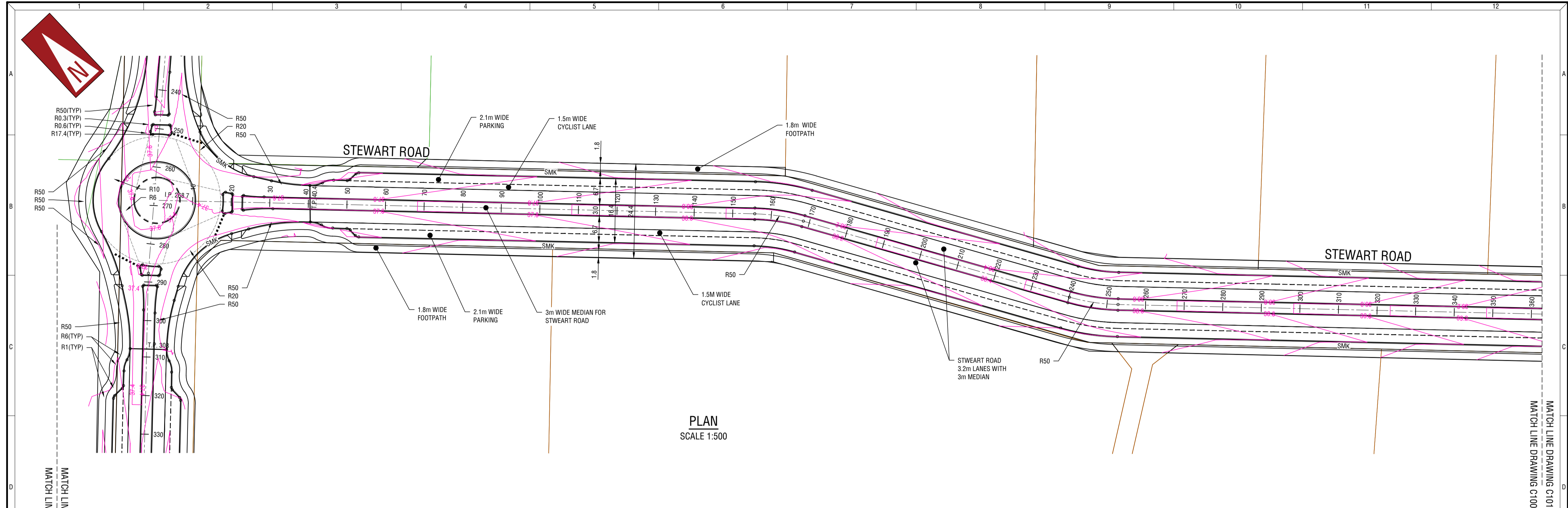
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PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	M.JANKOVIC
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
COMBINED SERVICES PLAN			
STEWART ROAD			
SHEET 2 OF 2			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.		REVISION	
C051		C	





PLAN  
SCALE 1:500

MATCH LINE DRAWING C100-MILNER ROAD

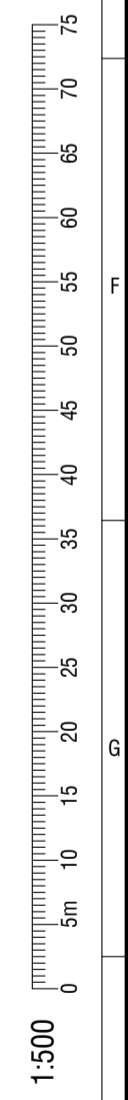
MATCH LINE DRAWING C101

**NOTES**

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  - 2.2. ALL KERBS WITH A RADIUS LESS THAN R40 NEED TO BE KEYED.
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  - 2.11. THE CONTRACTOR SHALL REINSTATE ALL PUBLIC OR PRIVATE WORKS OF ADJOINING LAND THAT HAS BEEN AFFECTED BY THE WORKS TO THE ORIGINAL OR SUPERIOR CONDITION OF ITS ORIGINAL STATE.
  - 2.12. EXISTING TEMPORARY TURNAROUND ON LOT 241 VIVID CHASE IS ASSUMED TO BE REMOVED BY OTHERS.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS IN THEIR ENTIRETY AND THE SPECIFICATION.
4. PRIOR TO ANY ROAD CONSTRUCTION, ALL SITE AREAS SHALL BE CLEARED, AND ANY TOPSOIL SHALL BE STOCKPILED FOR USE IN SWALES AND BATTERS.
5. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
6. ALL LEVELS SHOWN ARE FINISHED SURFACE LEVELS AFTER FINAL WORKS.
7. SOIL STABILISATION TO BE AS DIRECTED.
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9. VERGES SHALL BE GRADED TO SUIT THE EXISTING SURFACE LEVELS AT BOUNDARIES AND THE REQUIREMENTS FOR SWALES.
10. ALL DESIGN LEVELS AND SETOUT POINTS SHALL BE LOCATED FROM BENCH MARKS ESTABLISHED BY A LICENSED SURVEYOR.
11. THE CONTRACTOR SHALL OBTAIN UP-TO-DATE DBYD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
12. FOR ANY SERVICES THAT WILL BE IMPACTED BY THE PROPOSED WIDENING, THE CONTRACTOR SHALL CONFIRM THE EXISTING DEPTH OF THE SERVICE AND THE ALIGNMENT IS SUITABLE FOR THE PROPOSED WORKS.
13. THE CONTRACTOR SHALL REINSTATE ALL EXISTING CROSSOVER THAT CONNECT AN EXISTING HABITED PROPERTY, OR ANY PROPERTY CAPABLE OF HABITATION.
14. BUS EMPLOYMENTS AND BUS SHELTERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TRANSPERTH / PUBLIC TRANSPORT AUTHORITY STANDARDS AND REQUIREMENTS.
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**LEGEND**

- (MK) CENTRELINE
- (SMK) PROPOSED MOUNTABLE KERB
- PROPOSED SEMI-MOUNTABLE KERB
- EXISTING ROAD
- GIVE WAY LINE
- PARKING ALIGNMENT (2.1m WIDTH U.N.O.)
- LANE LINE / SEPARATION LINE / EDGE LINE
- BROKEN LANE LINE (3m LINE WITH 6m SPACINGS)
- FOOTPATH (VARYING WIDTHS - REFER PLAN)
- TANGENT POINT
- PRAM RAMP (2.5m WIDE U.N.O.)
- ROAD WIDENING AND PAINT MARKING TO SUIT LARGER VEHICLE TURNING RADIUS
- ROUNDAABOUT DESIGN GEOMETRY



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**DIAL 1100**  
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B	23/11/21	CK	CK			COMMENTS FROM CITY OF KALAMUNDA
A	17/10/21	CK	CK			ISSUED FOR 15% REVIEW

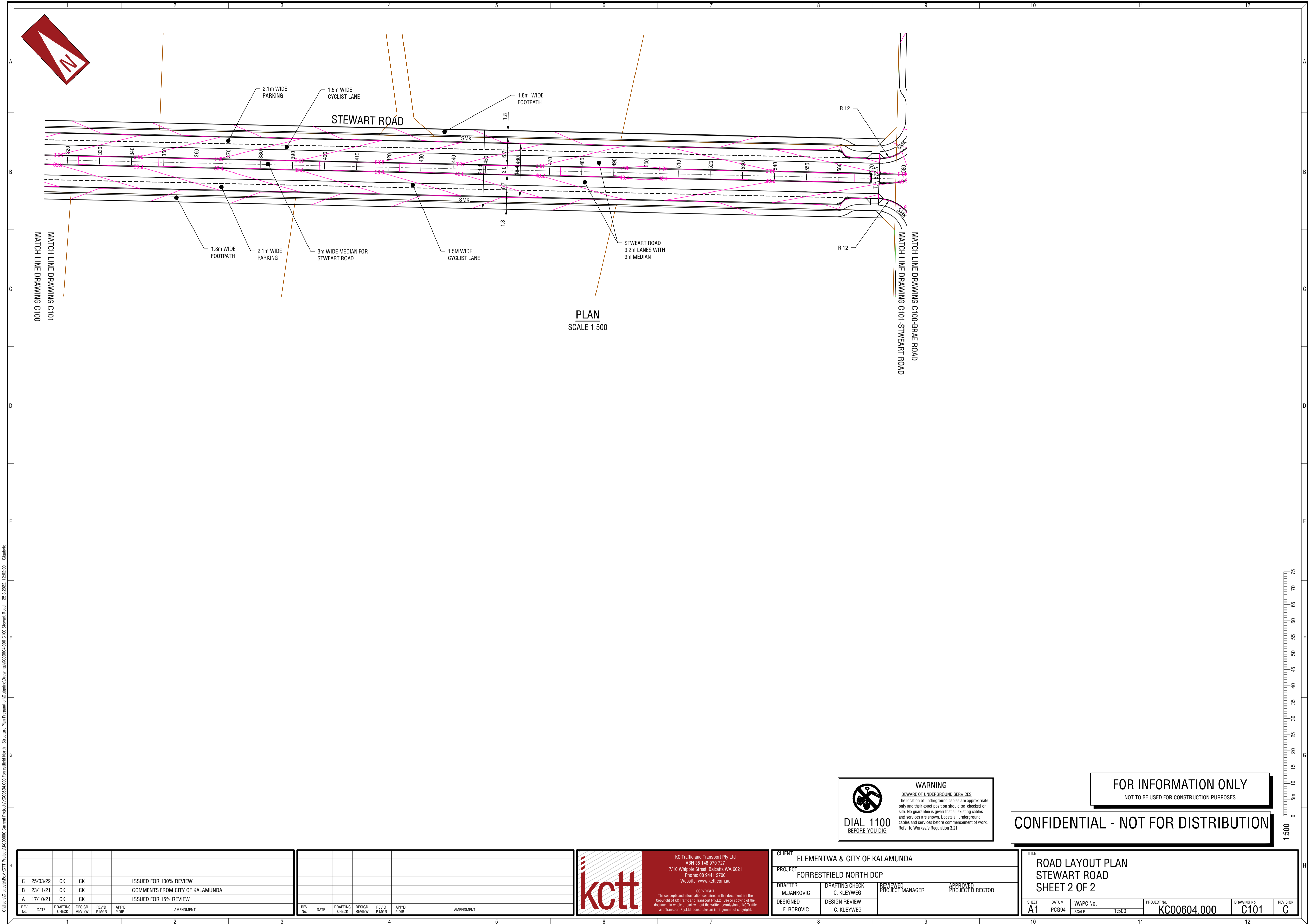
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PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	M.JANKOVIC
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN STEWART ROAD SHEET 1 OF 2			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG094	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C100	C		



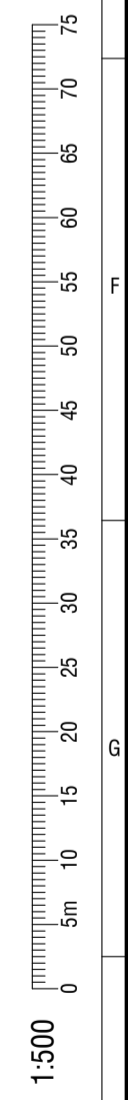
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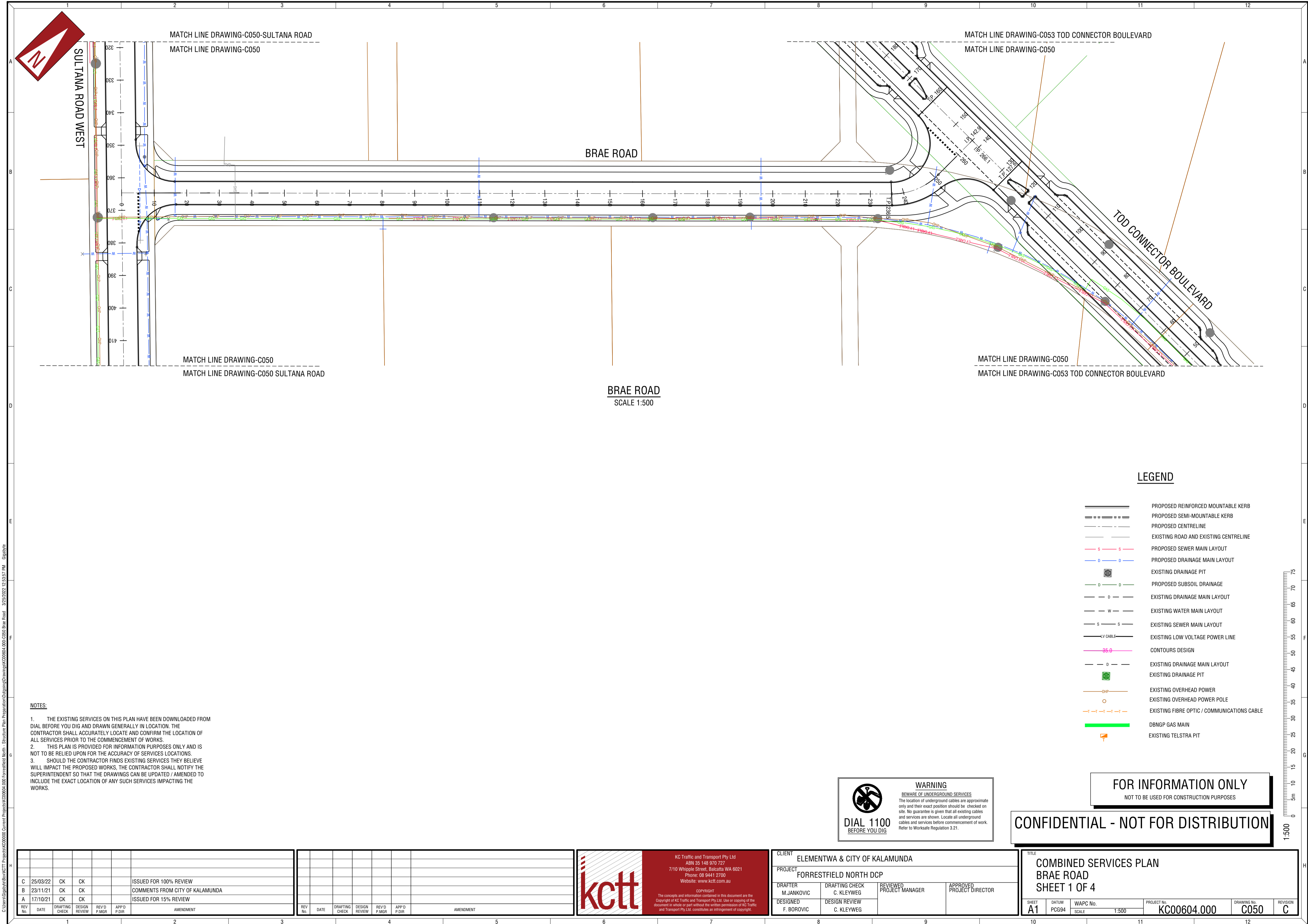
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PROJECT FORRESTFIELD NORTH DCP			
DRAFTER M.JANKOVIC	DRAFTING CHECK C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE ROAD LAYOUT PLAN STEWART ROAD SHEET 2 OF 2			
SHEET A1	DATUM PGS94	WAPC No. SCALE 1:500	PROJECT No. KC00604.000
DRAWING No. C101	REVISION C		





**BRAE ROAD**  
SCALE 1:500

- NOTES:**
1. THE EXISTING SERVICES ON THIS PLAN HAVE BEEN DOWNLOADED FROM DIAL BEFORE YOU DIG AND DRAWN GENERALLY IN LOCATION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND CONFIRM THE LOCATION OF ALL SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
  2. THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT TO BE RELIED UPON FOR THE ACCURACY OF SERVICES LOCATIONS.
  3. SHOULD THE CONTRACTOR FINDS EXISTING SERVICES THEY BELIEVE WILL IMPACT THE PROPOSED WORKS, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT SO THAT THE DRAWINGS CAN BE UPDATED / AMENDED TO INCLUDE THE EXACT LOCATION OF ANY SUCH SERVICES IMPACTING THE WORKS.

**LEGEND**

- PROPOSED REINFORCED MOUNTABLE KERB
- - - PROPOSED SEMI-MOUNTABLE KERB
- - - PROPOSED CENTRELINE
- - - EXISTING ROAD AND EXISTING CENTRELINE
- s — s — PROPOSED SEWER MAIN LAYOUT
- o — o — PROPOSED DRAINAGE MAIN LAYOUT
- ⊙ EXISTING DRAINAGE PIT
- o — o — PROPOSED SUBSOIL DRAINAGE
- o — o — EXISTING DRAINAGE MAIN LAYOUT
- w — w — EXISTING WATER MAIN LAYOUT
- s — s — EXISTING SEWER MAIN LAYOUT
- LV CABLE — EXISTING LOW VOLTAGE POWER LINE
- 25-0 — CONTOURS DESIGN
- o — o — EXISTING DRAINAGE MAIN LAYOUT
- ⊙ EXISTING DRAINAGE PIT
- o — o — EXISTING OVERHEAD POWER
- EXISTING OVERHEAD POWER POLE
- - - - EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
- DBNGP GAS MAIN —
- ⊙ EXISTING TELSTRA PIT

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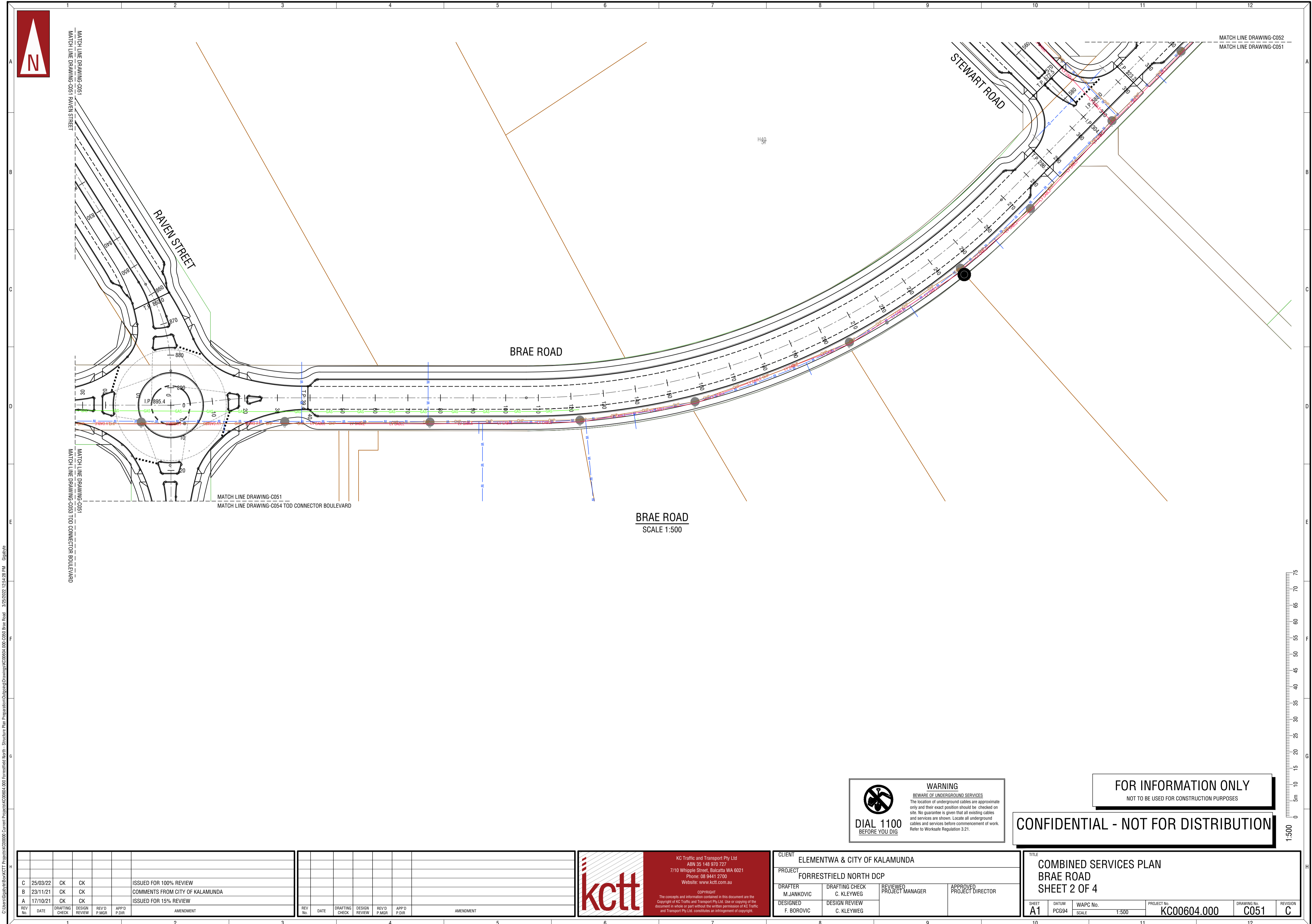
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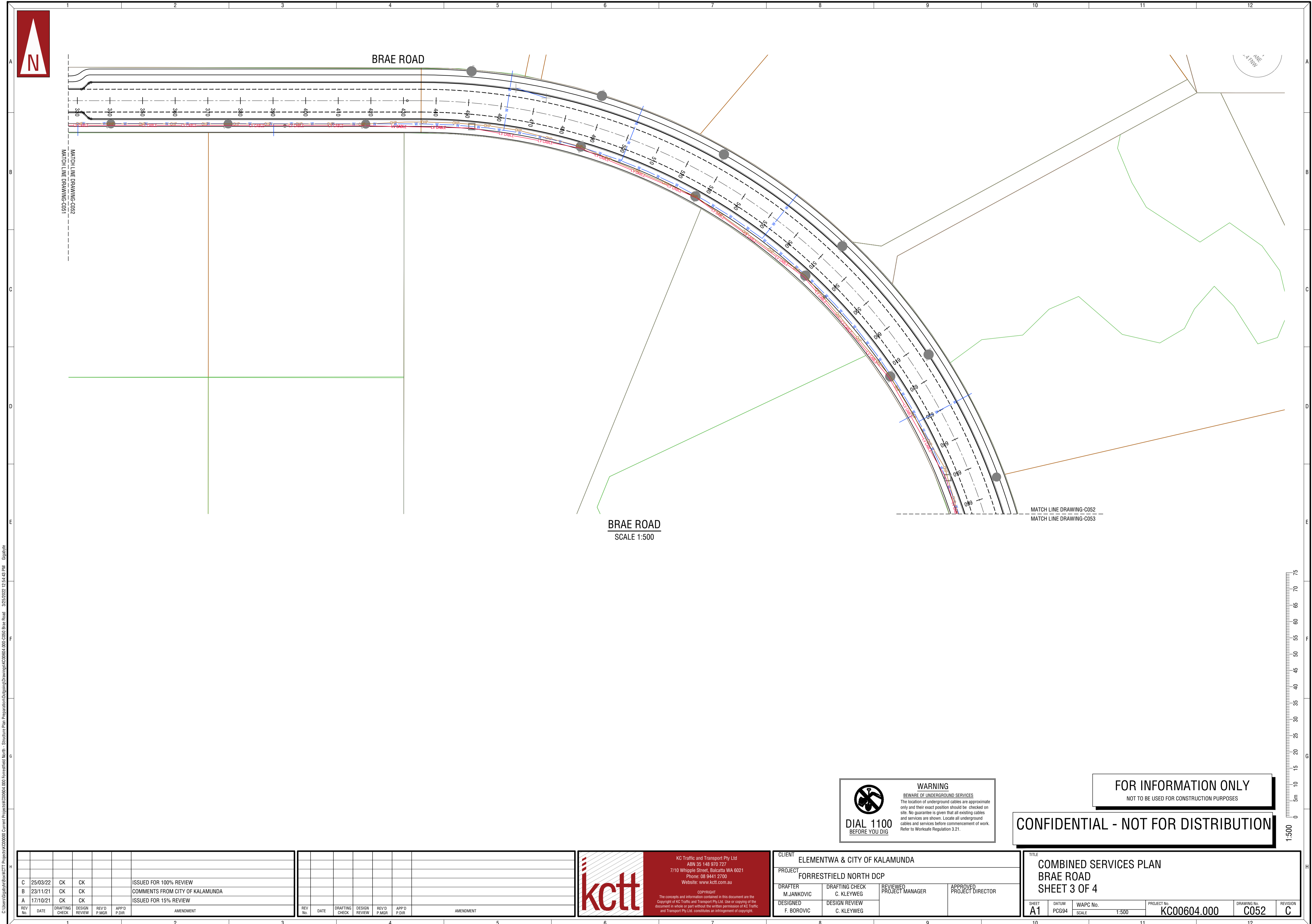
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PROJECT	FORRESTFIELD NORTH DCP				
DRAFTER	M.JANKOVIC	DRAFTING CHECK	C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED	F. BOROVIC	DESIGN REVIEW	C. KLEYWEG		

TITLE			
<b>COMBINED SERVICES PLAN</b>			
<b>BRAE ROAD</b>			
<b>SHEET 1 OF 4</b>			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PCGS4	SCALE 1:500	KC00604.000
DRAWING No.			REVISION
C050			C







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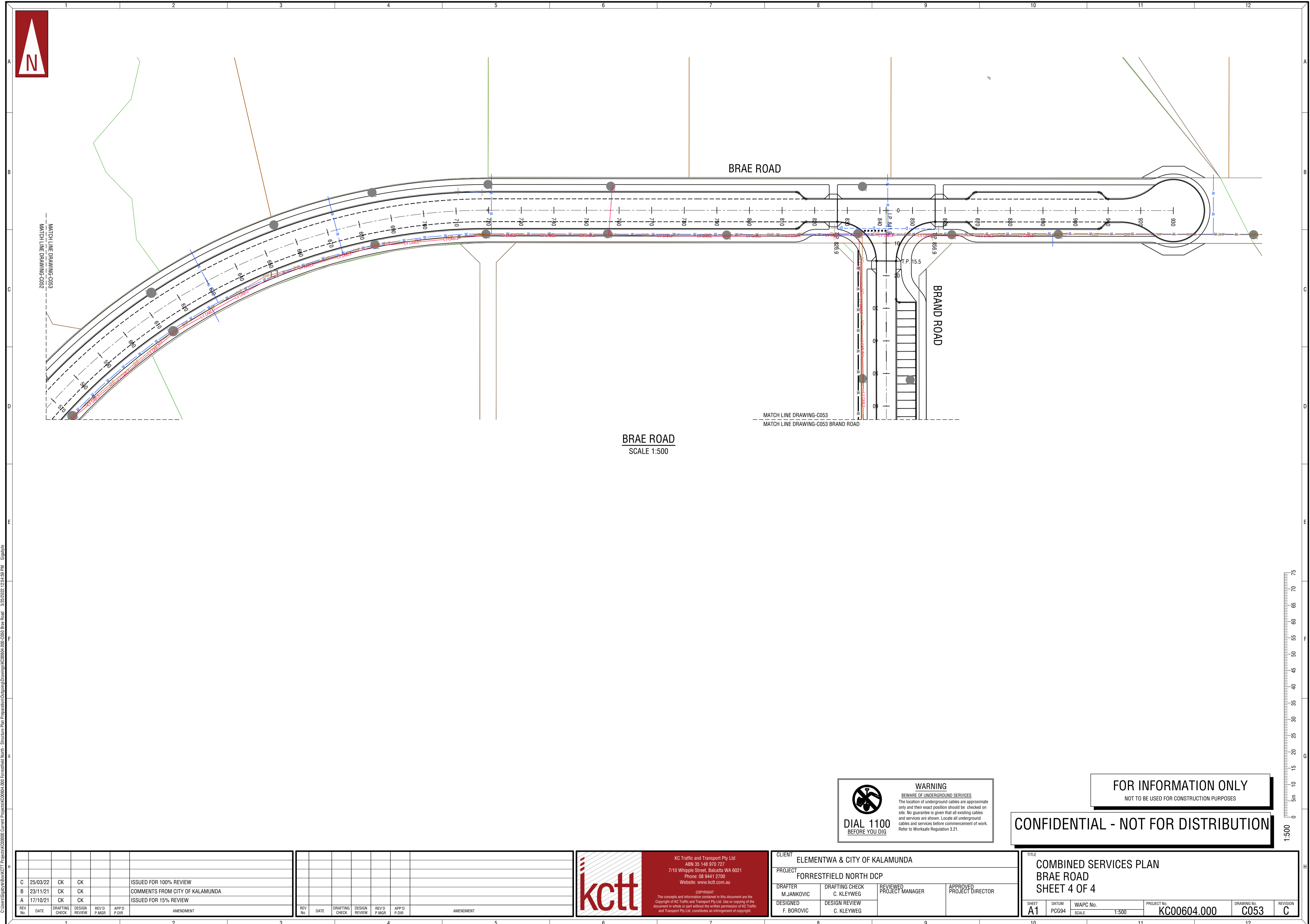
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PROJECT FORRESTFIELD NORTH DCP			
DRAFTER M.JANKOVIC	DRAFTING CHECK C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE COMBINED SERVICES PLAN BRAE ROAD SHEET 3 OF 4			
SHEET A1	DATUM PG94	WAPC No. SCALE 1:500	PROJECT No. KC00604.000
DRAWING No. C052	REVISION C		



BRAE ROAD  
SCALE 1:500

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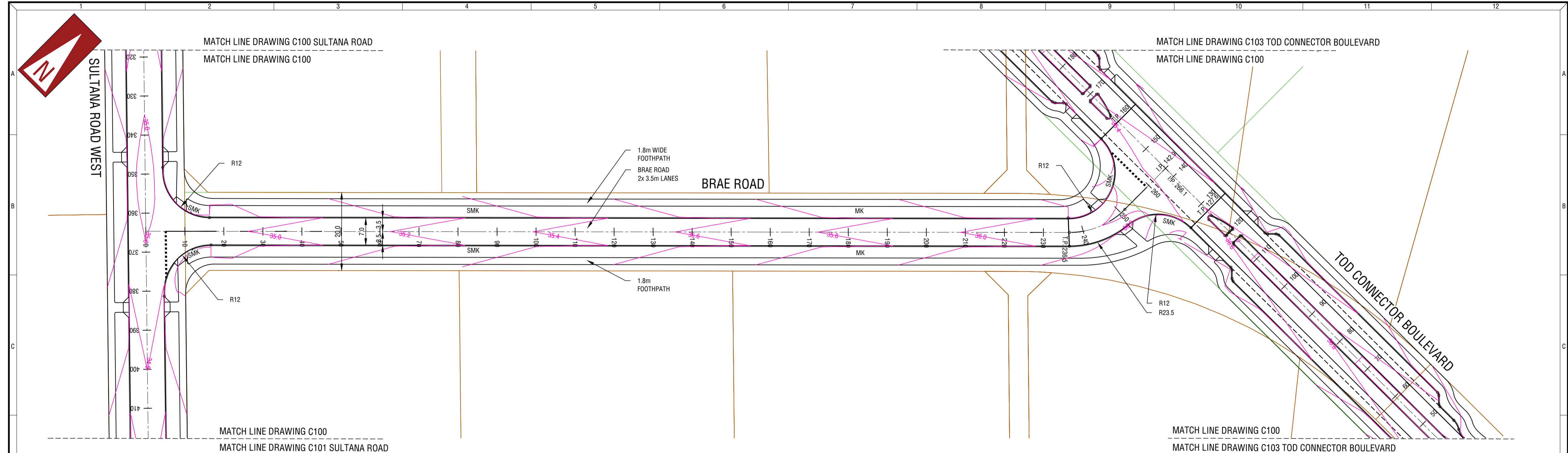
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PROJECT	FORRESTFIELD NORTH DCP		
DRAFTER	DRAFTING CHECK	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
M.JANKOVIC	C. KLEYWEG		
DESIGNED	DESIGN REVIEW		
F. BOROVIC	C. KLEYWEG		

TITLE			
COMBINED SERVICES PLAN			
BRAE ROAD			
SHEET 4 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PCGS4	SCALE 1:500	KC00604.000
DRAWING No.		REVISION	
C053		C	

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**BRAE ROAD**  
SCALE 1:500

**NOTES**

**1. GENERAL**

- 1.1. LEVELS ARE REDUCED FROM A.H.D.
- 1.2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL KC00604.000 DRAWINGS AND THE SPECIFICATION.
- 1.3. THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY AND PROTECT ALL VEGETATION ON SITE.
- 1.4. THE CONTRACTOR SHALL ENSURE THAT ALL LEVELS ARE SET-OUT BY LICENSED SURVEYOR.
- 1.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING RESIDENCES AT ALL TIMES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
- 1.6. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DESIGN DRAWINGS OR CLASHES WITH OTHER SERVICES AS SOON AS PRACTICALLY POSSIBLE TO THE SUPERINTENDENT.

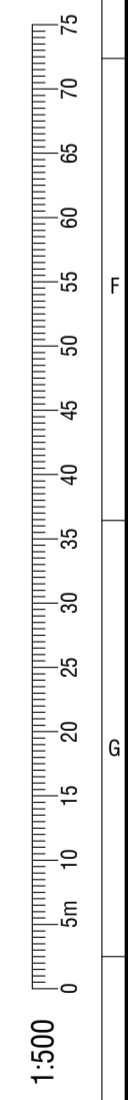
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12. LEVELS ARE RELATIVE TO A.H.D.
13. THE CONTRACTOR SHALL OBTAIN UP-TO-DATE DBVD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
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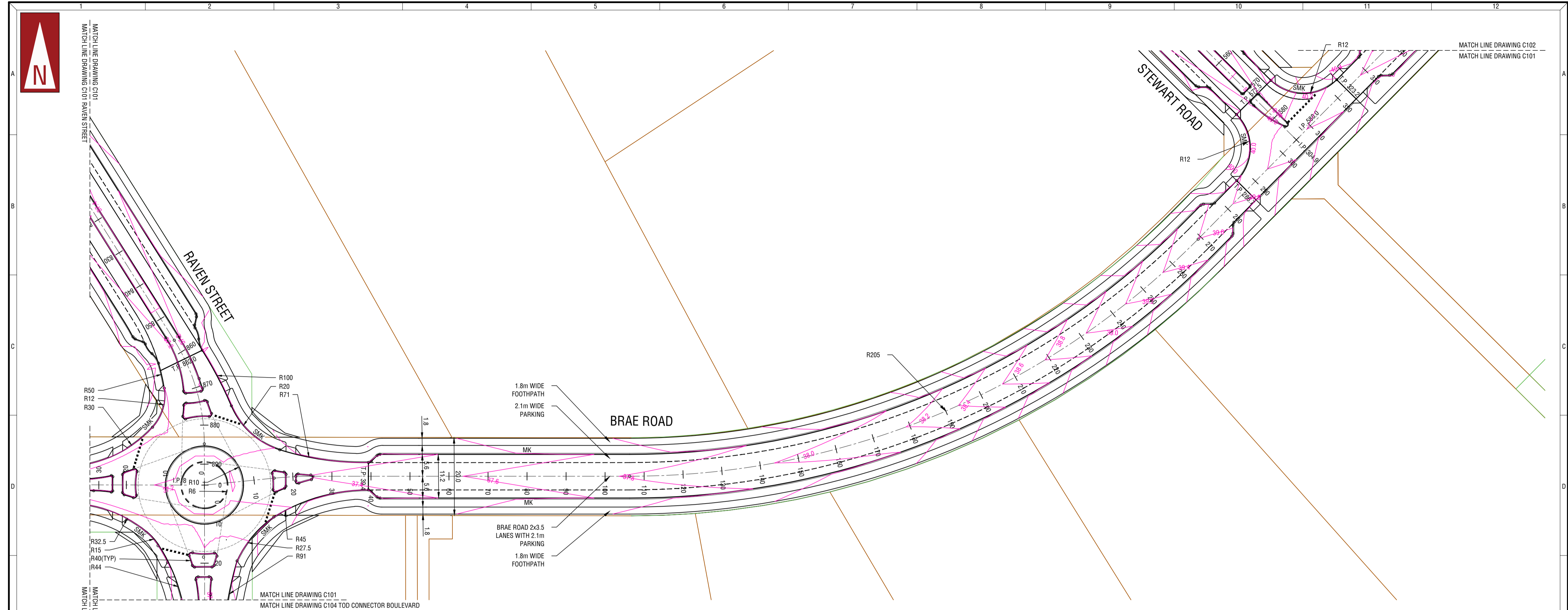
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<table border="1"> <tr> <th>REV NO.</th> <th>DATE</th> <th>DRAFTING CHECK</th> <th>DESIGN REVIEW</th> <th>REV'D P.MDR</th> <th>APP'D P.DIR</th> <th>AMENDMENT</th> </tr> <tr> <td>C</td> <td>25/03/22</td> <td>CK</td> <td>CK</td> <td></td> <td></td> <td>ISSUED FOR 100% REVIEW</td> </tr> <tr> <td>B</td> <td>23/11/21</td> <td>CK</td> <td>CK</td> <td></td> <td></td> <td>COMMENTS FROM CITY OF KALAMUNDA</td> </tr> <tr> <td>A</td> <td>17/10/21</td> <td>CK</td> <td>CK</td> <td></td> <td></td> <td>ISSUED FOR 15% REVIEW</td> </tr> </table>		REV NO.	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MDR	APP'D P.DIR	AMENDMENT	C	25/03/22	CK	CK			ISSUED FOR 100% REVIEW	B	23/11/21	CK	CK			COMMENTS FROM CITY OF KALAMUNDA	A	17/10/21	CK	CK			ISSUED FOR 15% REVIEW	<p>KC Traffic and Transport Pty Ltd ABN 55 148 870 727 7/10 Whipple Street, Subiaco WA 6021 Phone: (81) 9441 2700 Website: www.kctt.com.au</p> <p><small>COPYRIGHT This copyright and intellectual property in this document and the copyright of KC Traffic and Transport Pty Ltd. Use or copying of the document in whole or part without the written permission of KC Traffic and Transport Pty Ltd. constitutes an infringement of copyright.</small></p>		<table border="1"> <tr> <td>CLIENT</td> <td>ELEMENTWA &amp; CITY OF KALAMUNDA</td> </tr> <tr> <td>PROJECT</td> <td>FORRESTFIELD NORTH DCP</td> </tr> <tr> <td>DRAFTER</td> <td>M.JANKOVIC</td> </tr> <tr> <td>DESIGNED</td> <td>F. BOROVIC</td> </tr> <tr> <td>DRAFTING CHECK</td> <td>C. KLEYWEG</td> </tr> <tr> <td>DESIGN REVIEW</td> <td>C. KLEYWEG</td> </tr> <tr> <td>REVIEWED PROJECT MANAGER</td> <td></td> </tr> <tr> <td>APPROVED PROJECT DIRECTOR</td> <td></td> </tr> </table>		CLIENT	ELEMENTWA & CITY OF KALAMUNDA	PROJECT	FORRESTFIELD NORTH DCP	DRAFTER	M.JANKOVIC	DESIGNED	F. BOROVIC	DRAFTING CHECK	C. KLEYWEG	DESIGN REVIEW	C. KLEYWEG	REVIEWED PROJECT MANAGER		APPROVED PROJECT DIRECTOR		<table border="1"> <tr> <td>TITLE</td> <td colspan="2">ROAD LAYOUT PLAN BRAE ROAD SHEET 1 OF 4</td> </tr> <tr> <td>SHEET</td> <td>A1</td> <td></td> </tr> <tr> <td>DATUM</td> <td>PGS94</td> <td></td> </tr> <tr> <td>WAPC No.</td> <td>SCALE</td> <td>1:500</td> </tr> <tr> <td>PROJECT No.</td> <td>KC00604.000</td> <td></td> </tr> <tr> <td>DRAWING No.</td> <td>C100</td> <td></td> </tr> <tr> <td>REVISION</td> <td>C</td> <td></td> </tr> </table>		TITLE	ROAD LAYOUT PLAN BRAE ROAD SHEET 1 OF 4		SHEET	A1		DATUM	PGS94		WAPC No.	SCALE	1:500	PROJECT No.	KC00604.000		DRAWING No.	C100		REVISION	C	
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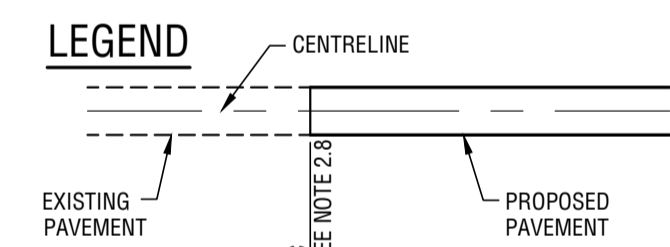
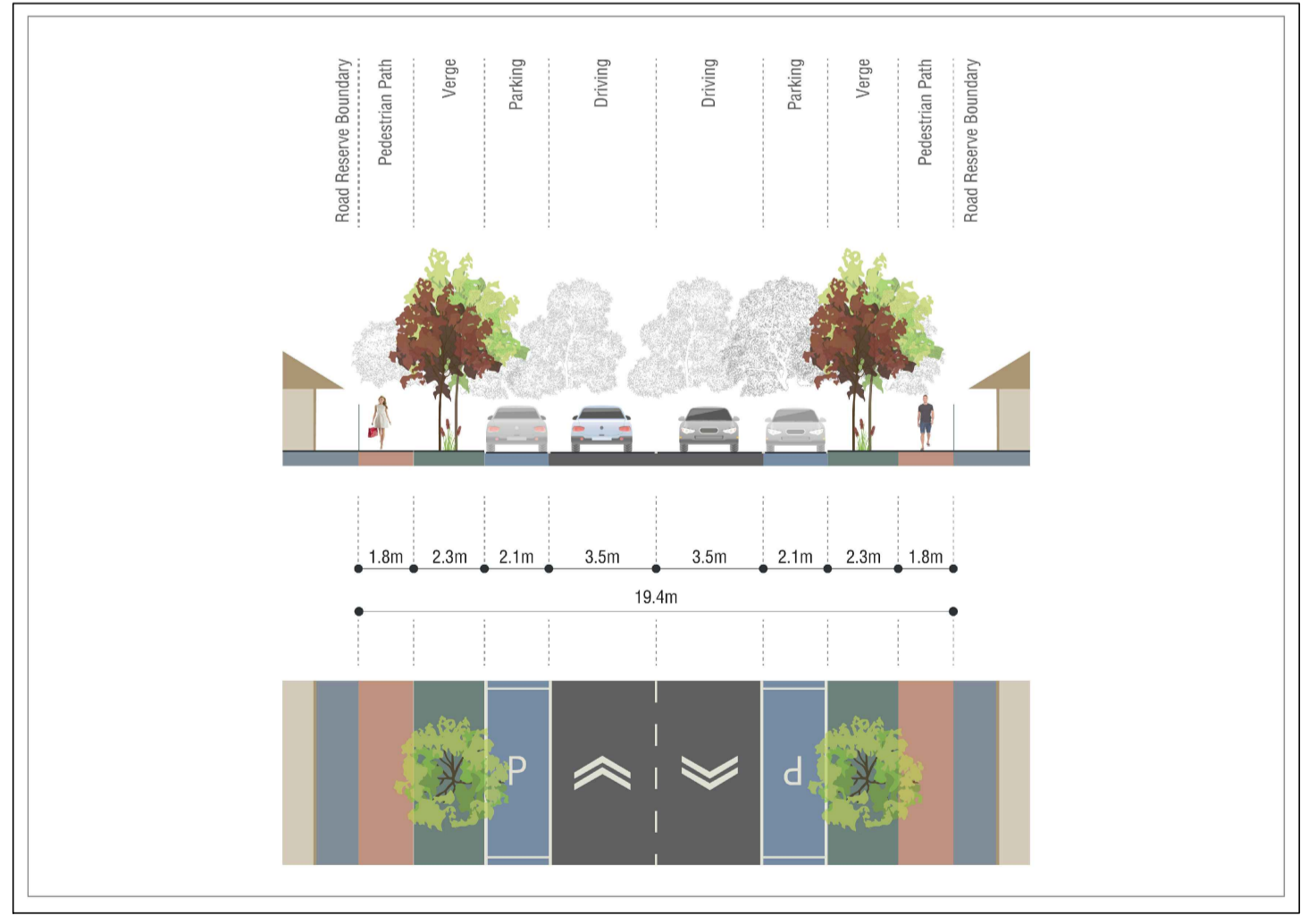


**BRAE ROAD**  
SCALE 1:500

**NOTES**

1. GENERAL
  - 1.1. LEVELS ARE REDUCED FROM A.H.D.
  - 1.2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL KC00604.000 DRAWINGS AND THE SPECIFICATION.
  - 1.3. THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY AND PROTECT ALL VEGETATION ON SITE.
  - 1.4. THE CONTRACTOR SHALL ENSURE THAT ALL LEVELS ARE SET-OUT BY LICENSED SURVEYOR.
  - 1.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING RESIDENCES AT ALL TIMES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
  - 1.6. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DESIGN DRAWINGS OR CLASHES WITH OTHER SERVICES AS SOON AS PRACTICALLY POSSIBLE TO THE SUPERINTENDENT.
2. ROADWORKS
  - 2.1. ALL CORNER SWEEPS SHALL BE 12.0m RADIUS KEYED UNLESS OTHERWISE SHOWN.
  - 2.2. ALL KERBS WITH A RADIUS LESS THAN R40 NEED TO BE KEYED.
  - 2.3. ALL KERBS SHALL BE MOUNTABLE UNLESS OTHERWISE SHOWN.
  - 2.4. ALL SWEEPS SHALL BE SEMI-MOUNTABLE UNLESS OTHERWISE SHOWN.
  - 2.5. ALL PARKING BAY KERBING SHALL BE BARRIER UNLESS OTHERWISE SHOWN.
  - 2.6. PAVEMENT WIDTH SHALL BE AS SHOWN ON THE DRAWINGS AND SHALL BE MEASURED BETWEEN KERBS.
  - 2.7. ALL ROAD VERGES & DISTURBED AREAS SHALL BE STABILISED BY APPLICATION OF SEEDED HYDRO MULCH.
  - 2.8. THE CONTRACTOR SHALL SAW-CUT EXISTING PAVEMENT IN A STRAIGHT LINE REMOVE EXISTING KERB BETWEEN INTERSECTION SWEEPS AND MAKE SMOOTH CONNECTION.
  - 2.9. THE CONTRACTOR SHALL ENSURE IRRIGATION DUCTS ARE NOT TERMINATED UNDER FOOTPATHS.
  - 2.10. FOR ROAD PAVEMENTS AND KERB DETAILS, THE CONTRACTOR SHALL REFER TO STANDARD DRAWINGS.
  - 2.11. THE CONTRACTOR SHALL REINSTATE ALL PUBLIC OR PRIVATE WORKS OF ADJOINING LAND THAT HAS BEEN AFFECTED BY THE WORKS TO THE ORIGINAL OR SUPERIOR CONDITION OF ITS ORIGINAL STATE.
  - 2.12. EXISTING TEMPORARY TURNAROUND ON LOT 241 VIVID CHASE IS ASSUMED TO BE REMOVED BY OTHERS.

3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS IN THEIR ENTIRETY AND THE SPECIFICATION.
4. PRIOR TO ANY ROAD CONSTRUCTION, ALL SITE AREAS SHALL BE CLEARED, AND ANY TOPSOIL SHALL BE STOCKPILED FOR USE IN SWALES AND BATTERS.
5. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
6. ALL LEVELS SHOWN ARE FINISHED SURFACE LEVELS AFTER FINAL WORKS.
7. SOIL STABILISATION TO BE AS DIRECTED.
8. DUST CONTROL TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. VERGES SHALL BE GRADED TO SUIT THE EXISTING SURFACE LEVELS AT BOUNDARIES AND THE REQUIREMENTS FOR SWALES.
10. ALL DESIGN LEVELS AND SETOUT POINTS SHALL BE LOCATED FROM BENCH MARKS ESTABLISHED BY A LICENSED SURVEYOR.
11. THE CONTRACTOR SHALL CERTIFY THAT EARTHWORKS HAVE BEEN PLACED AND COMPACTED IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATIONS.
12. LEVELS ARE RELATIVE TO A.H.D.
13. THE CONTRACTOR SHALL OBTAIN UP-TO-DATE DBVD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. FOR ANY SERVICES THAT WILL BE IMPACTED BY THE PROPOSED WIDENING, THE CONTRACTOR SHALL CONFIRM THE EXISTING DEPTH OF THE SERVICE AND THE ALIGNMENT IS SUITABLE FOR THE PROPOSED WORKS.
14. THE CONTRACTOR SHALL REINSTATE ALL EXISTING CROSSOVER THAT CONNECT AN EXISTING HABITED PROPERTY, OR ANY PROPERTY CAPABLE OF HABITATION, BUS EMBAYMENTS AND BUS SHELTERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TRANSPERTH / PUBLIC TRANSPORT AUTHORITY STANDARDS AND REQUIREMENTS.
15. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL ROAD RESERVE BOUNDARIES, AS THE LOCATION OF SOME BOUNDARIES ARE REQUIRED TO CHANGE AS A RESULT OF FUTURE LAND DEVELOPMENT CONDITIONS.



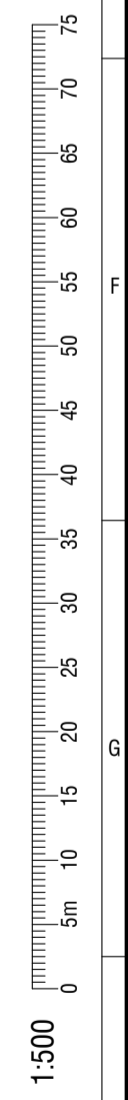
- (MK) PROPOSED REINFORCED MOUNTABLE KERB
- (SMK) PROPOSED KEYED SEMI-MOUNTABLE KERB
- EXISTING ROAD
- 9.4 DESIGN FINISHED SURFACE CONTOUR (0.2m INTERVAL)

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C	25/03/22	CK	CK			ISSUED FOR 100% REVIEW
B	23/11/21	CK	CK			COMMENTS FROM CITY OF KALAMUNDA
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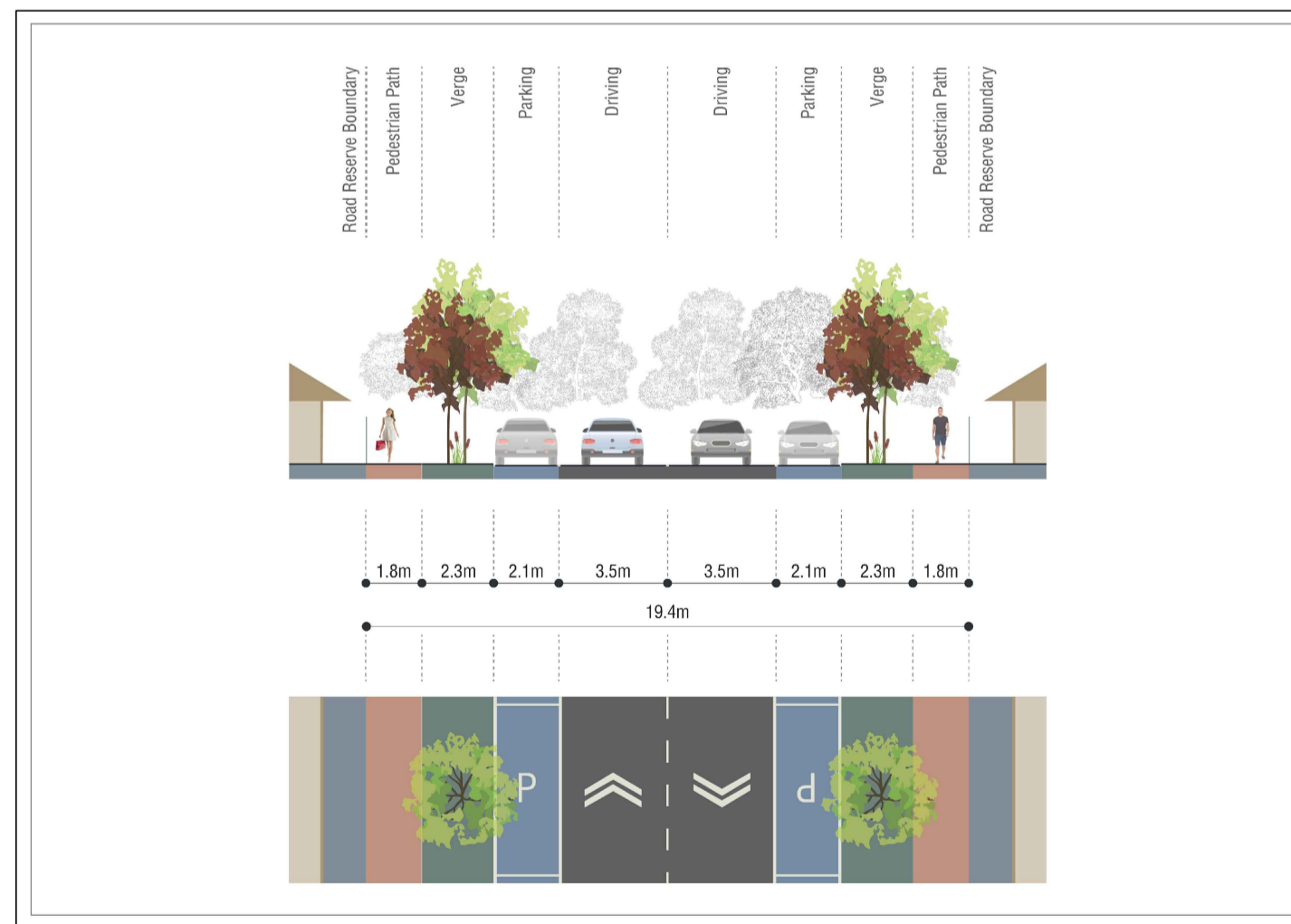
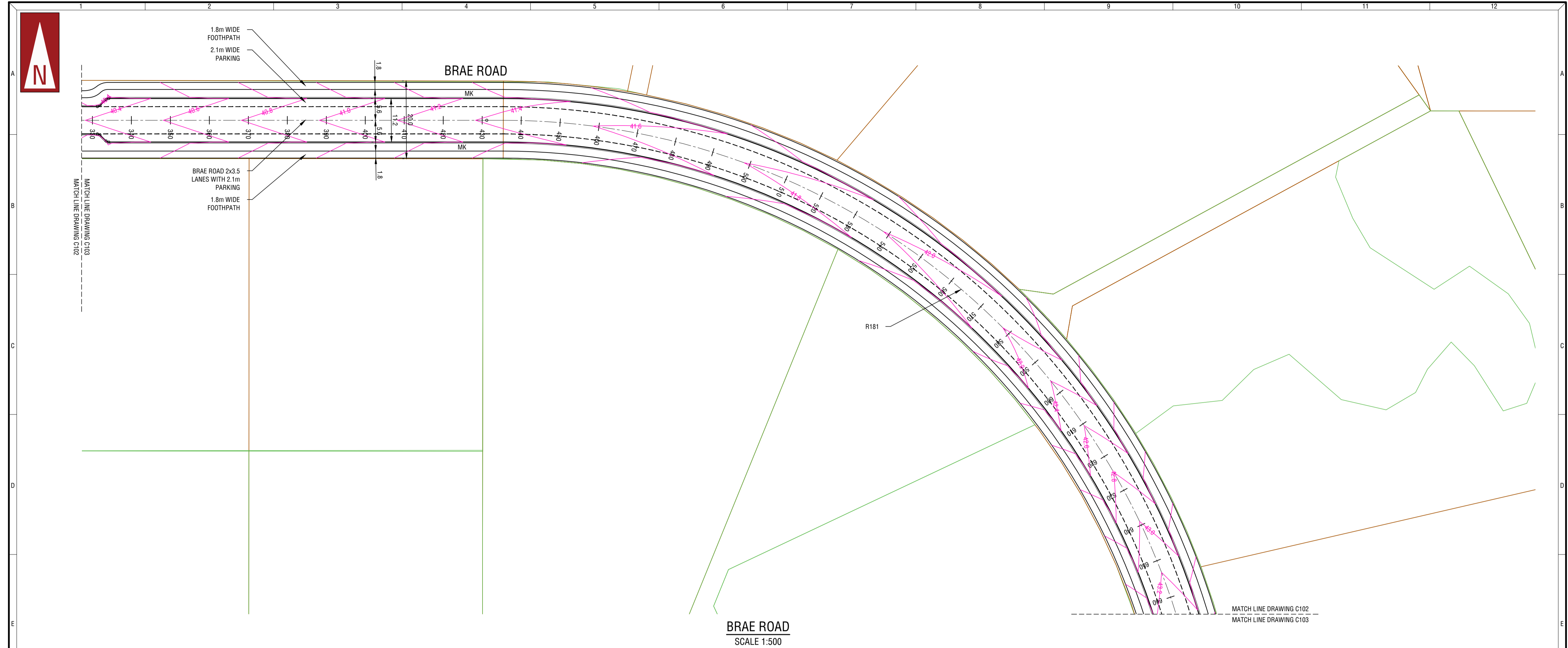
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DRAFTER	M.JANKOVIC	DRAFTING CHECK	C.KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED	F.BOROVIC	DESIGN REVIEW	C.KLEYWEG		

TITLE		ROAD LAYOUT PLAN BRAE ROAD SHEET 2 OF 4	
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C101	C		



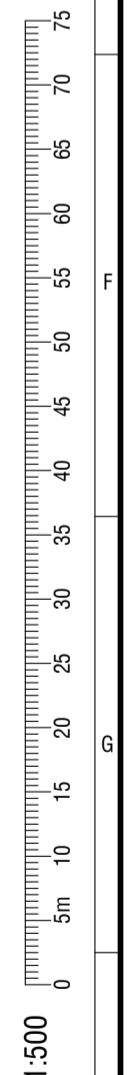


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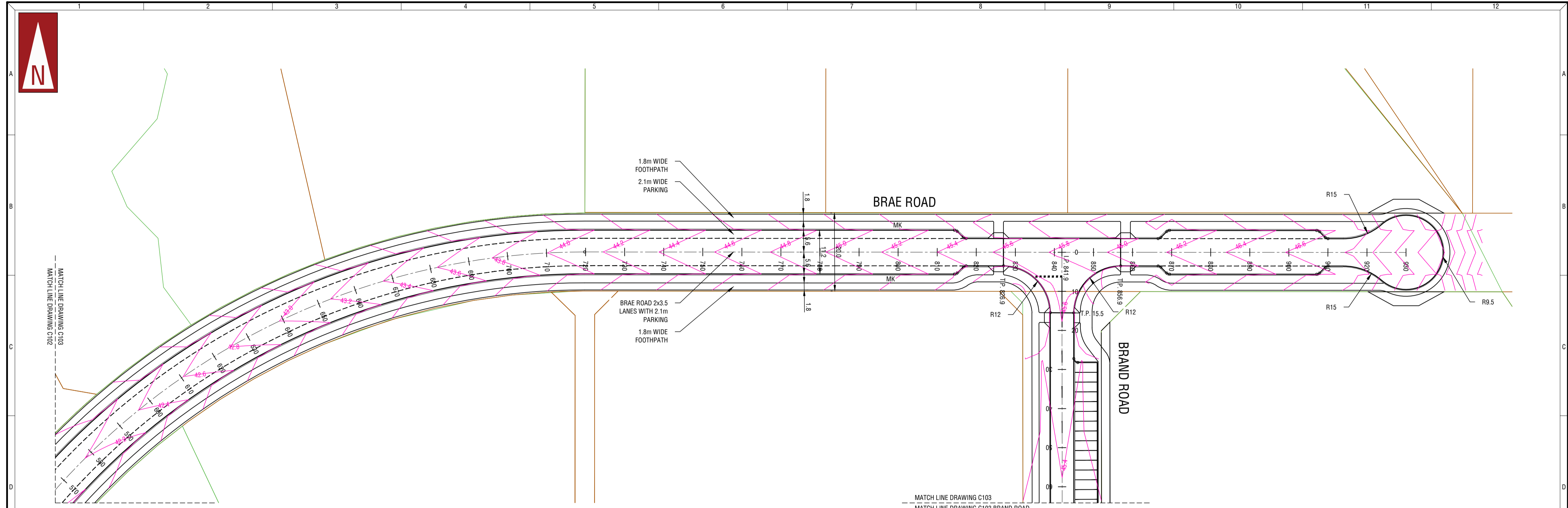
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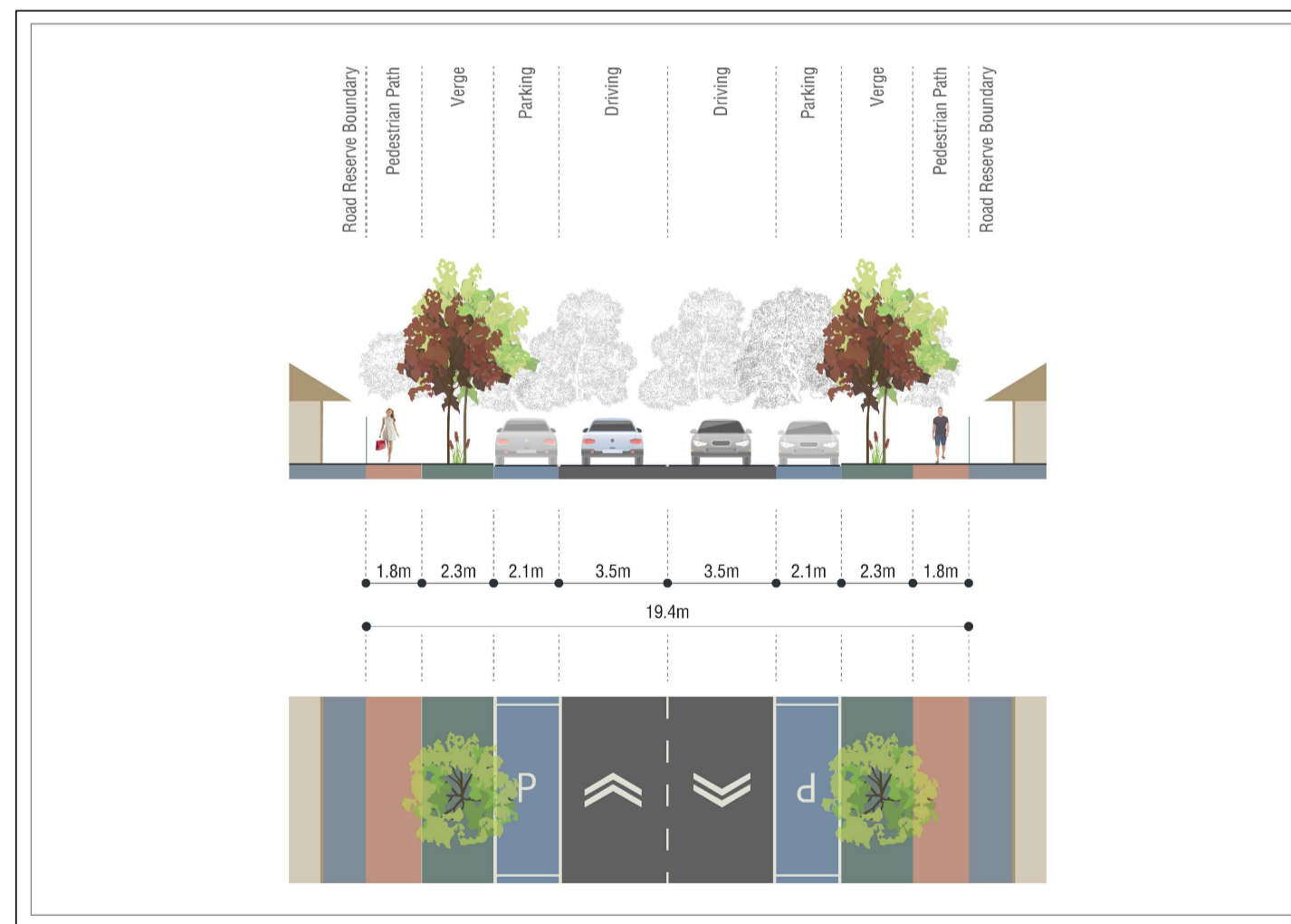
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN BRAE ROAD SHEET 3 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG094	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C102	C		



BRAE ROAD  
SCALE 1:500

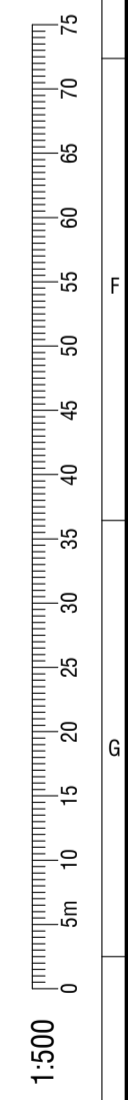


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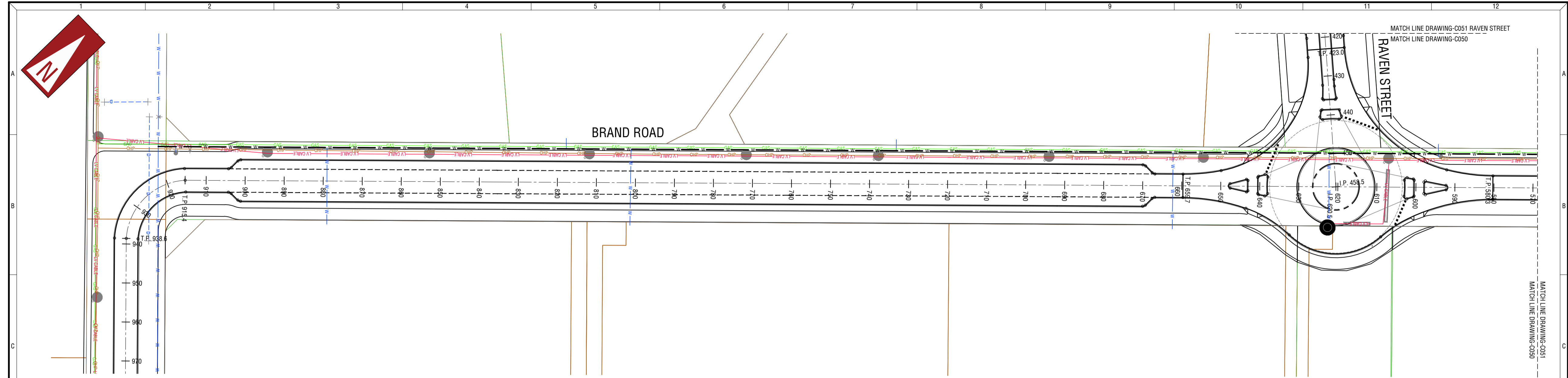
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DESIGNED	DESIGN REVIEW		
F. BOROVIC	C. KLEYWEG		

TITLE			
ROAD LAYOUT PLAN BRAE ROAD SHEET 4 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C103	C		





**BRAND ROAD**  
SCALE 1:500

- NOTES.**
1. THE EXISTING SERVICES ON THIS PLAN HAVE BEEN DOWNLOADED FROM DIAL BEFORE YOU DIG AND DRAWN GENERALLY IN LOCATION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND CONFIRM THE LOCATION OF ALL SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
  2. THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IS NOT TO BE RELIED UPON FOR THE ACCURACY OF SERVICES LOCATIONS.
  3. SHOULD THE CONTRACTOR FINDS EXISTING SERVICES THEY BELIEVE WILL IMPACT THE PROPOSED WORKS, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT SO THAT THE DRAWINGS CAN BE UPDATED / AMENDED TO INCLUDE THE EXACT LOCATION OF ANY SUCH SERVICES IMPACTING THE WORKS.

**LEGEND**

	PROPOSED REINFORCED MOUNTABLE KERB
	PROPOSED SEMI-MOUNTABLE KERB
	PROPOSED CENTRELINE
	EXISTING ROAD AND EXISTING CENTRELINE
	PROPOSED SEWER MAIN LAYOUT
	PROPOSED DRAINAGE MAIN LAYOUT
	EXISTING DRAINAGE PIT
	PROPOSED SUBSOIL DRAINAGE
	EXISTING DRAINAGE MAIN LAYOUT
	EXISTING WATER MAIN LAYOUT
	EXISTING SEWER MAIN LAYOUT
	EXISTING LOW VOLTAGE POWER LINE
	CONTOURS DESIGN
	EXISTING DRAINAGE MAIN LAYOUT
	EXISTING DRAINAGE PIT
	EXISTING OVERHEAD POWER
	EXISTING OVERHEAD POWER POLE
	EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
	DBNSP GAS MAIN
	EXISTING TELSTRA PIT

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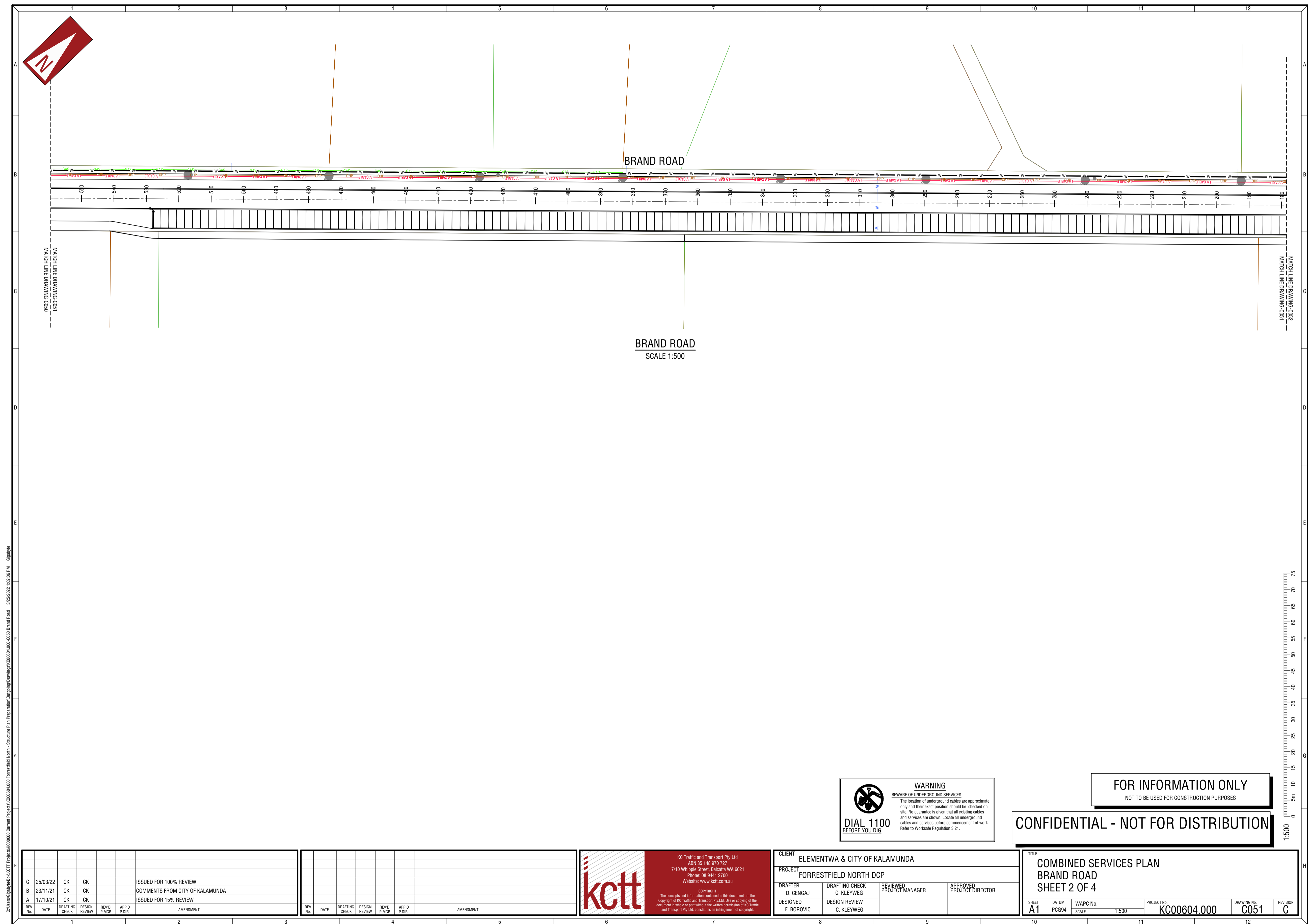
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE	COMBINED SERVICES PLAN BRAND ROAD SHEET 1 OF 4		
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PCGS4	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C050	C		

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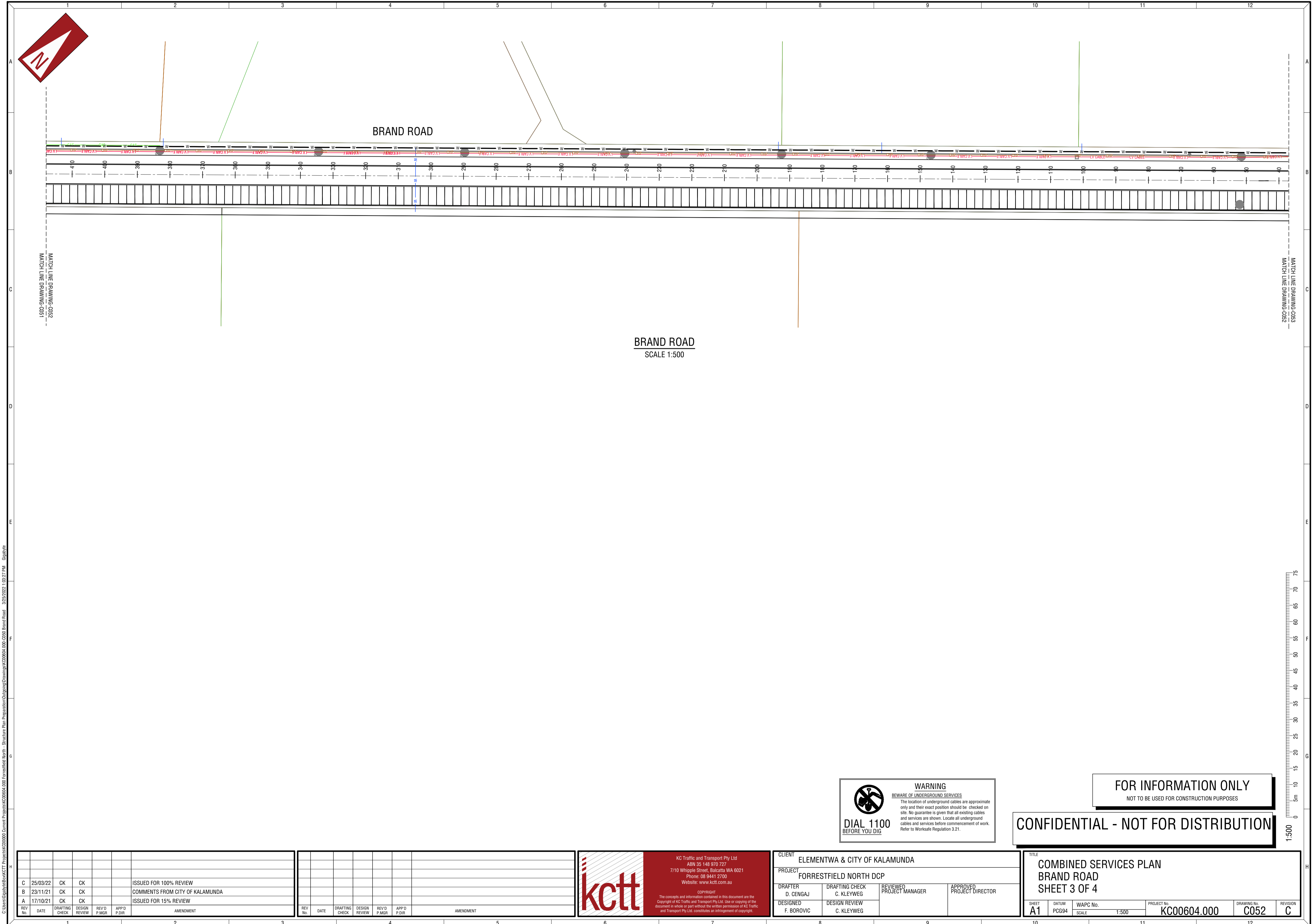
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
COMBINED SERVICES PLAN			
BRAND ROAD			
SHEET 2 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PGS4	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C051	C		





BRAND ROAD  
SCALE 1:500

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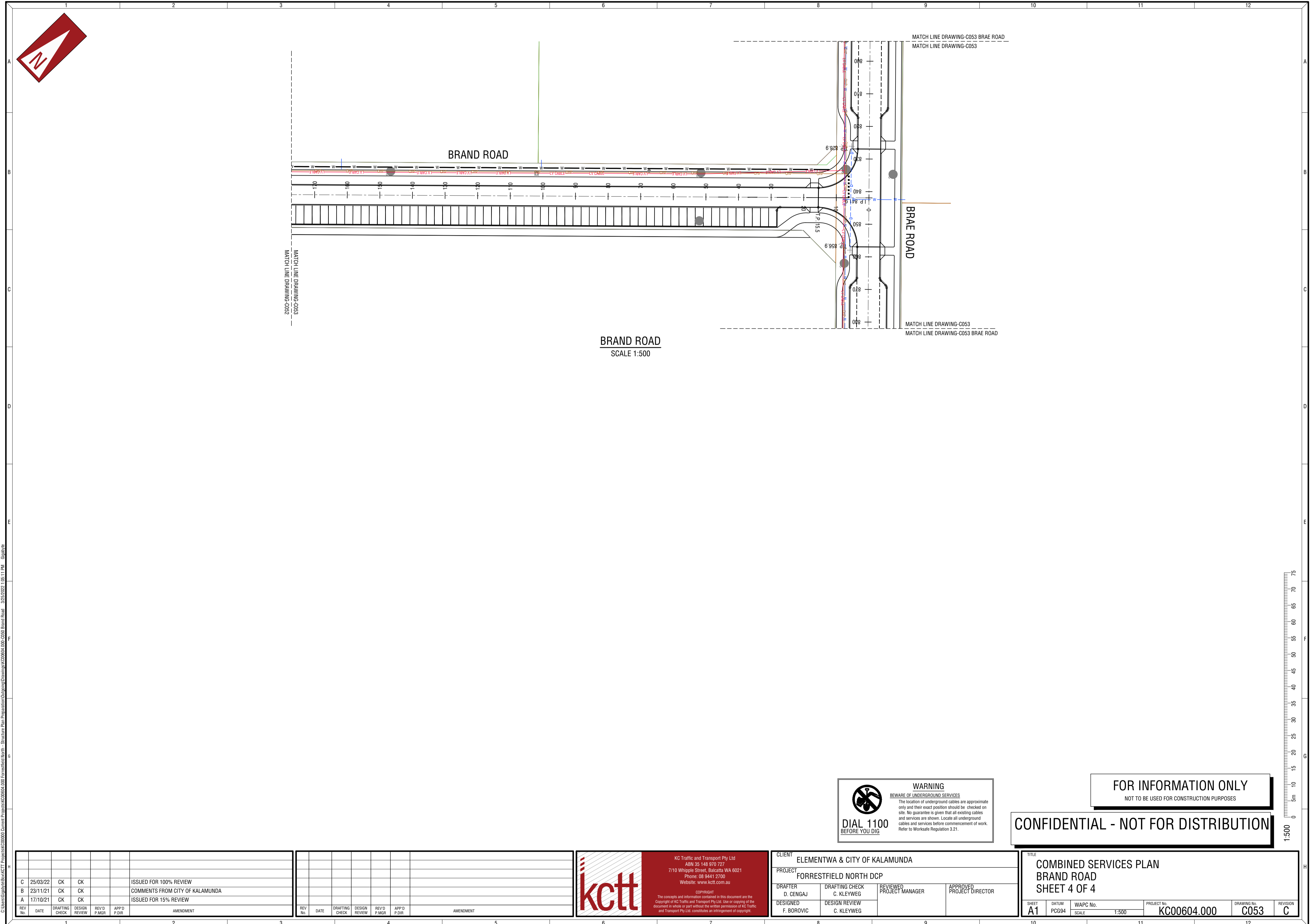
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DRAFTER D. CENGAJ	DRAFTING CHECK C. KLEYWEG	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE COMBINED SERVICES PLAN BRAND ROAD SHEET 3 OF 4			
SHEET A1	DATUM PG94	WAPC No. SCALE 1:500	PROJECT No. KC00604.000
DRAWING No. C052	REVISION C		

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C	25/03/22	CK	CK			ISSUED FOR 100% REVIEW
B	23/11/21	CK	CK			COMMENTS FROM CITY OF KALAMUNDA
A	17/10/21	CK	CK			ISSUED FOR 15% REVIEW

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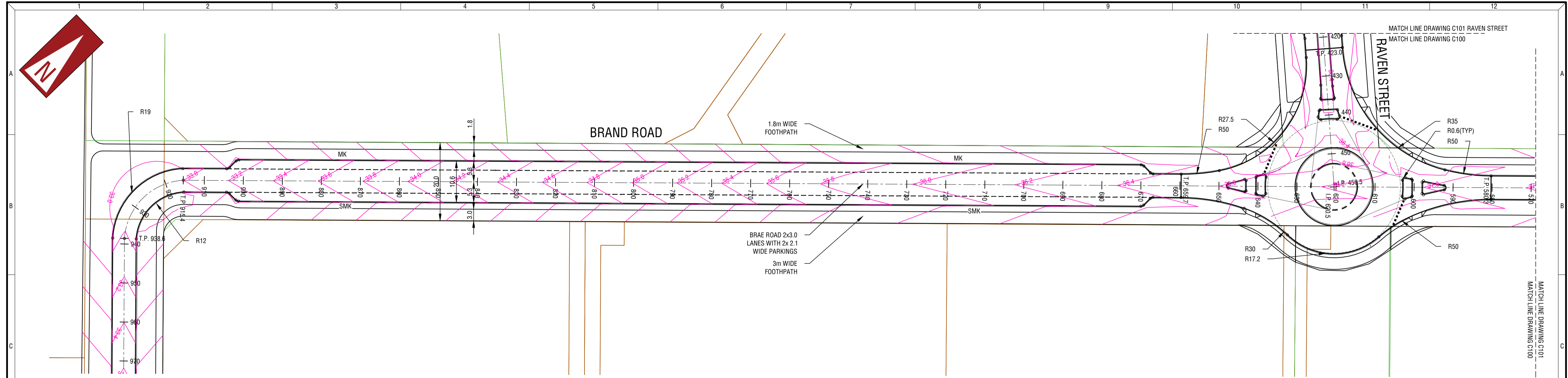
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PROJECT FORRESTFIELD NORTH DCP			
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DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE COMBINED SERVICES PLAN BRAND ROAD SHEET 4 OF 4			
SHEET A1	DATUM PCGS4	WAPC No. SCALE 1:500	PROJECT No. KC00604.000
		DRAWING No. C053	REVISION C

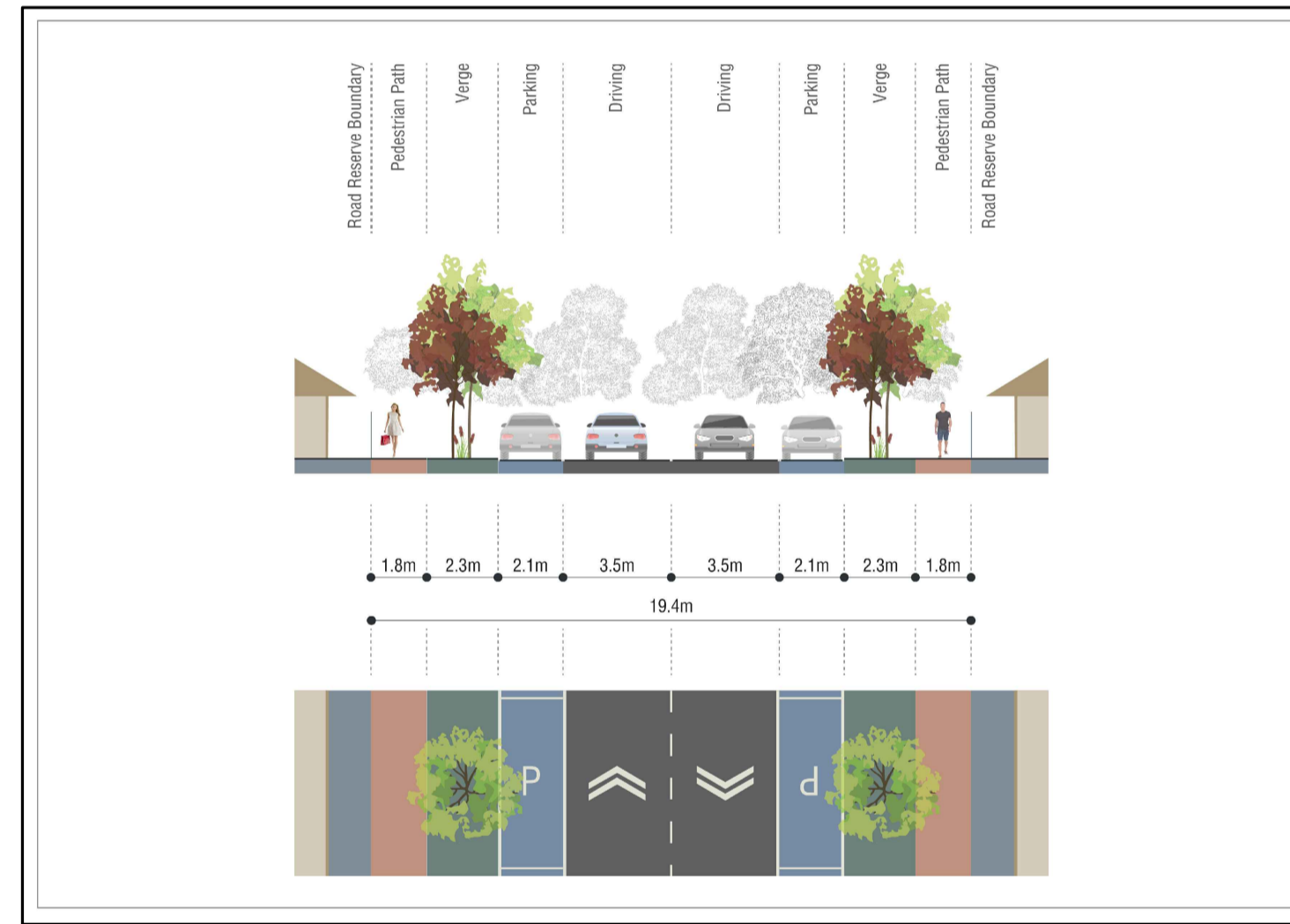




**BRAND ROAD**  
SCALE 1:500

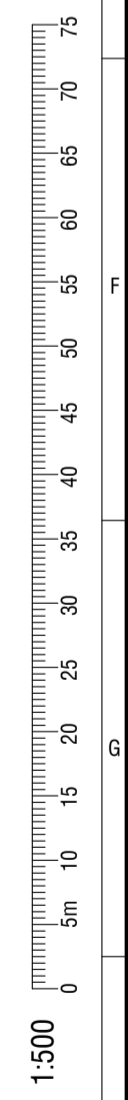
**NOTES**

1. GENERAL
  - 1.1. LEVELS ARE REDUCED FROM A.H.D.
  - 1.2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL KC00604.000 DRAWINGS AND THE SPECIFICATION.
  - 1.3. THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY AND PROTECT ALL VEGETATION ON SITE.
  - 1.4. THE CONTRACTOR SHALL ENSURE THAT ALL LEVELS ARE SET-OUT BY LICENSED SURVEYOR.
  - 1.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING RESIDENCES AT ALL TIMES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
  - 1.6. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DESIGN DRAWINGS OR CLASHES WITH OTHER SERVICES AS SOON AS PRACTICALLY POSSIBLE TO THE SUPERINTENDENT.
2. ROADWORKS
  - 2.1. ALL CORNER SWEEPS SHALL BE 12.0m RADIUS KEYS UNLESS OTHERWISE SHOWN
  - 2.2. ALL KERBS WITH A RADIUS LESS THAN R40 NEED TO BE KEYS.
  - 2.3. ALL KERBS SHALL BE MOUNTABLE UNLESS OTHERWISE SHOWN.
  - 2.4. ALL SWEEPS SHALL BE SEMI-MOUNTABLE UNLESS OTHERWISE SHOWN.
  - 2.5. ALL PARKING BAY KERBS SHALL BE BARRIER UNLESS OTHERWISE SHOWN.
  - 2.6. PAVEMENT WIDTH SHALL BE AS SHOWN ON THE DRAWINGS AND SHALL BE MEASURED BETWEEN KERBS.
  - 2.7. ALL ROAD VERGES & DISTURBED AREAS SHALL BE STABILISED BY APPLICATION OF SEEDED HYDRO MULCH.
  - 2.8. THE CONTRACTOR SHALL SAW-CUT EXISTING PAVEMENT IN A STRAIGHT LINE REMOVE EXISTING KERB BETWEEN INTERSECTION SWEEPS AND MAKE SMOOTH CONNECTION.
  - 2.9. THE CONTRACTOR SHALL ENSURE IRRIGATION DUCTS ARE NOT TERMINATED UNDER FOOTPATHS.
  - 2.10. FOR ROAD PAVEMENTS AND KERB DETAILS, THE CONTRACTOR SHALL REFER TO STANDARD DRAWINGS.
  - 2.11. THE CONTRACTOR SHALL REINSTATE ALL PUBLIC OR PRIVATE WORKS OF ADJOINING LAND THAT HAS BEEN AFFECTED BY THE WORKS TO THE ORIGINAL OR SUPERIOR CONDITION OF ITS ORIGINAL STATE.
  - 2.12. EXISTING TEMPORARY TURNAROUND ON LOT 241 VIVID CHASE IS ASSUMED TO BE REMOVED BY OTHERS.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS IN THEIR ENTIRETY AND THE SPECIFICATION.
4. PRIOR TO ANY ROAD CONSTRUCTION, ALL SITE AREAS SHALL BE CLEARED, AND ANY TOPSOIL SHALL BE STOCKPILED FOR USE IN SWALES AND BATTERS.
5. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
6. ALL LEVELS SHOWN ARE FINISHED SURFACE LEVELS AFTER FINAL WORKS.
7. SOIL STABILISATION TO BE AS DIRECTED.
8. DUST CONTROL TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. VERGES SHALL BE GRADED TO SUIT THE EXISTING SURFACE LEVELS AT BOUNDARIES AND THE REQUIREMENTS FOR SWALES.
10. ALL DESIGN LEVELS AND SETOUT POINTS SHALL BE LOCATED FROM BENCH MARKS ESTABLISHED BY A LICENSED SURVEYOR.
11. THE CONTRACTOR SHALL CERTIFY THAT EARTHWORKS HAVE BEEN PLACED AND COMPACTED IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATIONS. LEVELS ARE RELATIVE TO AHD.
12. THE CONTRACTOR SHALL OBTAIN UP-TO-DATE DBVD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. FOR ANY SERVICES THAT WILL BE IMPACTED BY THE PROPOSED WIDENING, THE CONTRACTOR SHALL CONFIRM THE EXISTING DEPTH OF THE SERVICE AND THE ALIGNMENT IS SUITABLE FOR THE PROPOSED WORKS.
13. THE CONTRACTOR SHALL REINSTATE ALL EXISTING CROSSOVER THAT CONNECT AN EXISTING HABITED PROPERTY, OR ANY PROPERTY CAPABLE OF HABITATION, BUS EMBAYMENTS AND BUS SHELTERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TRANSPERTH / PUBLIC TRANSPORT AUTHORITY STANDARDS AND REQUIREMENTS.
14. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL ROAD RESERVE BOUNDARIES, AS THE LOCATION OF SOME BOUNDARIES ARE REQUIRED TO CHANGE AS A RESULT OF FUTURE LAND DEVELOPMENT CONDITIONS.



**LEGEND**

- (MK) CENTRELINE
- PROPOSED MOUNTABLE KERB
- - - PROPOSED SEMI-MOUNTABLE KERB
- EXISTING ROAD
- GIVE WAY LINE
- PARKING ALIGNMENT (2.1m WIDTH U.N.O.)
- LANE LINE / SEPARATION LINE / EDGE LINE
- - - BROKEN LANE LINE (3m LINE WITH 6m SPACINGS)
- FOOTPATH (VARYING WIDTHS - REFER PLAN)
- TANGENT POINT
- ▽ PRAM RAMP (2.5m WIDE U.N.O.)
- ROAD WIDENING AND PAINT MARKING TO SUIT LARGER VEHICLE TURNING RADIUS
- ROUNDABOUT DESIGN GEOMETRY



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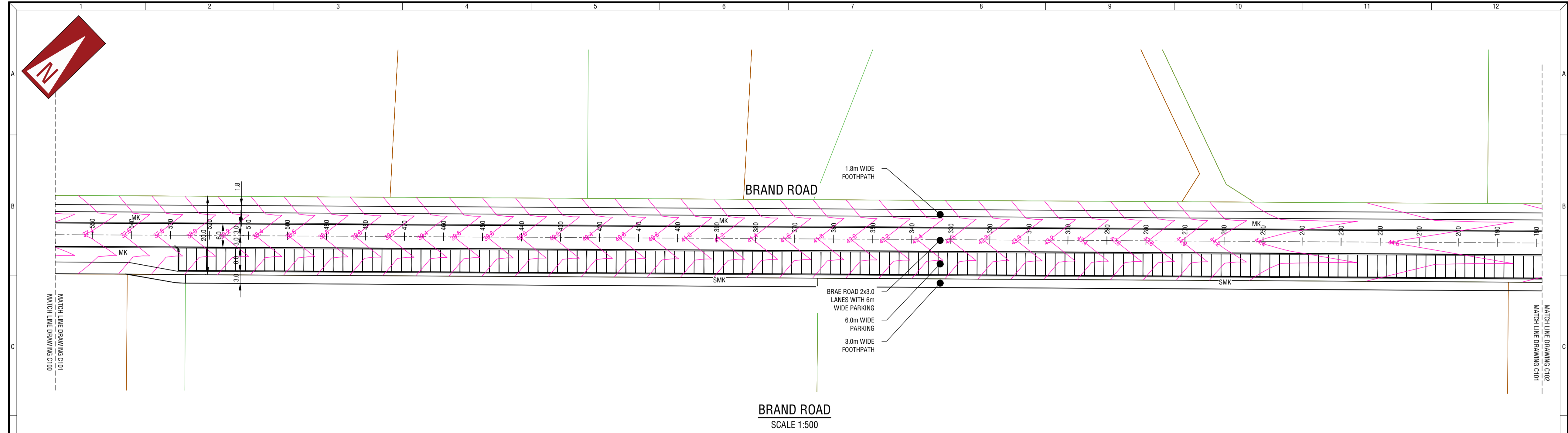
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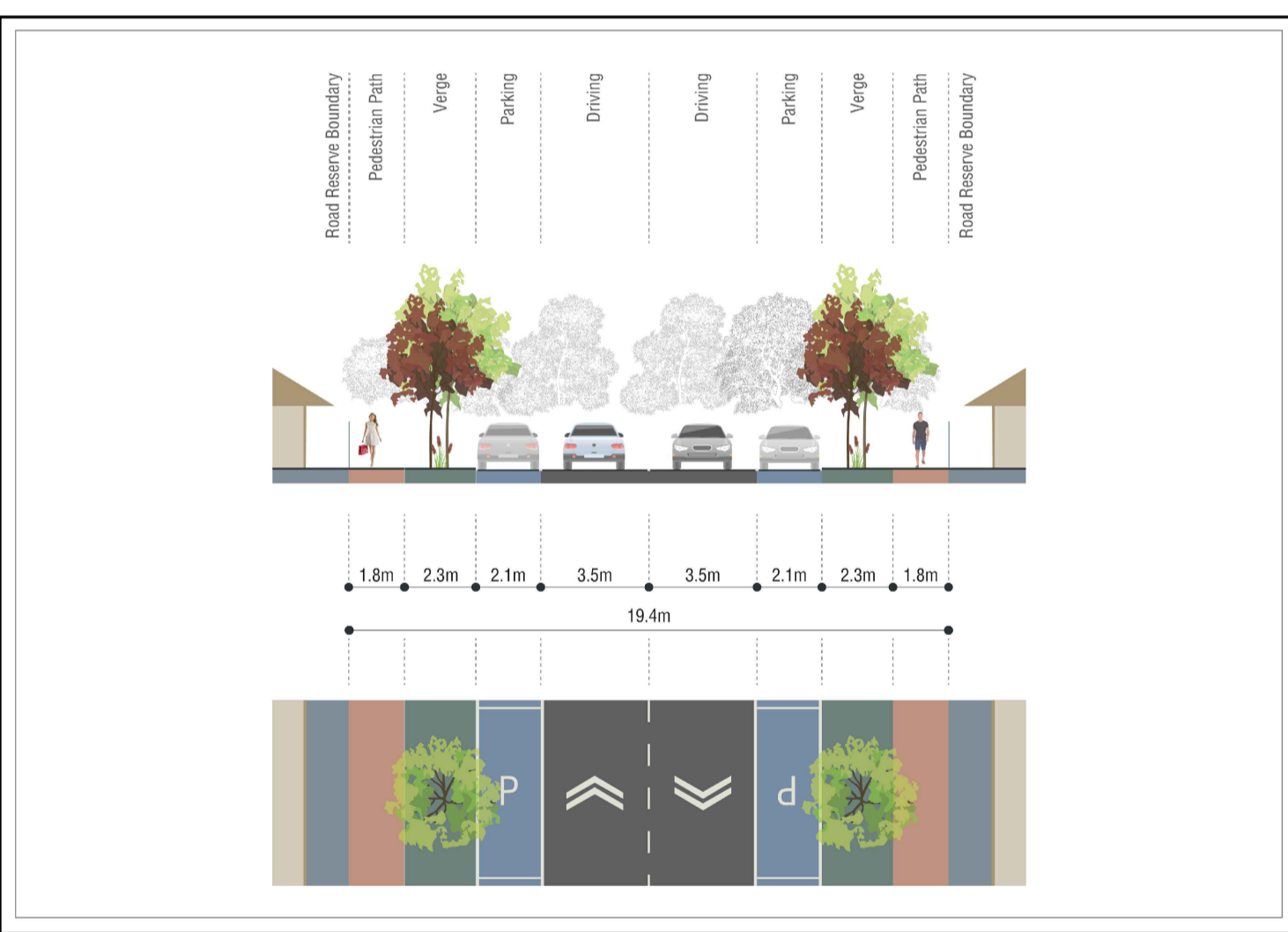
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE	ROAD LAYOUT PLAN BRAND ROAD SHEET 1 OF 4		
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG094	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C100	C		



**BRAND ROAD**  
SCALE 1:500



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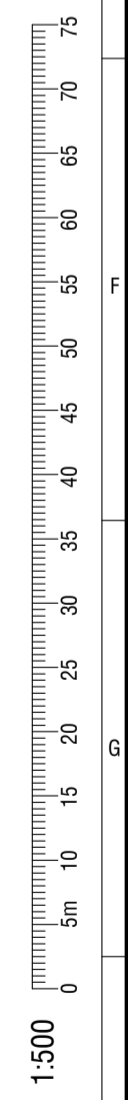
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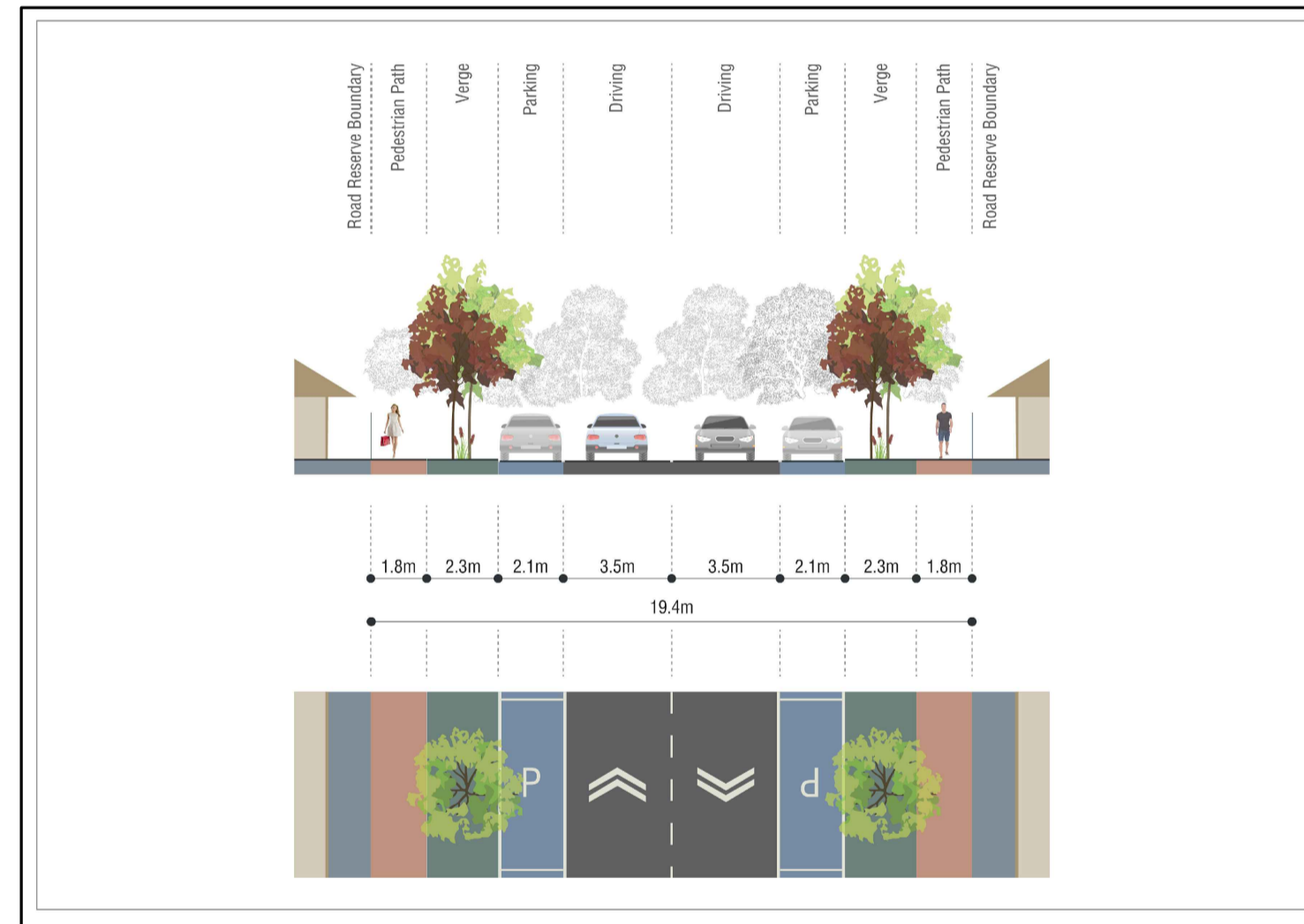
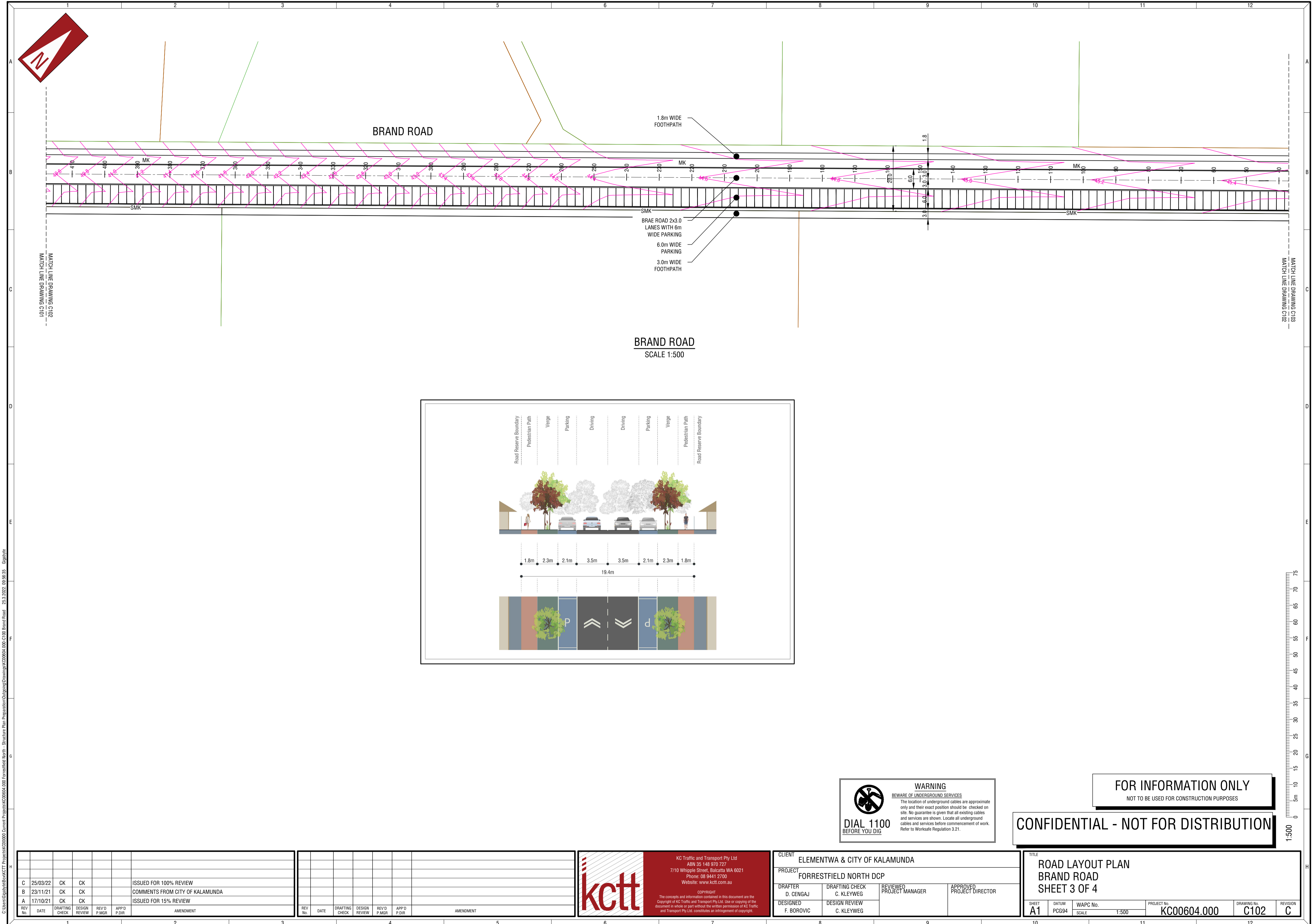
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DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN			
BRAND ROAD			
SHEET 2 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C101	C		







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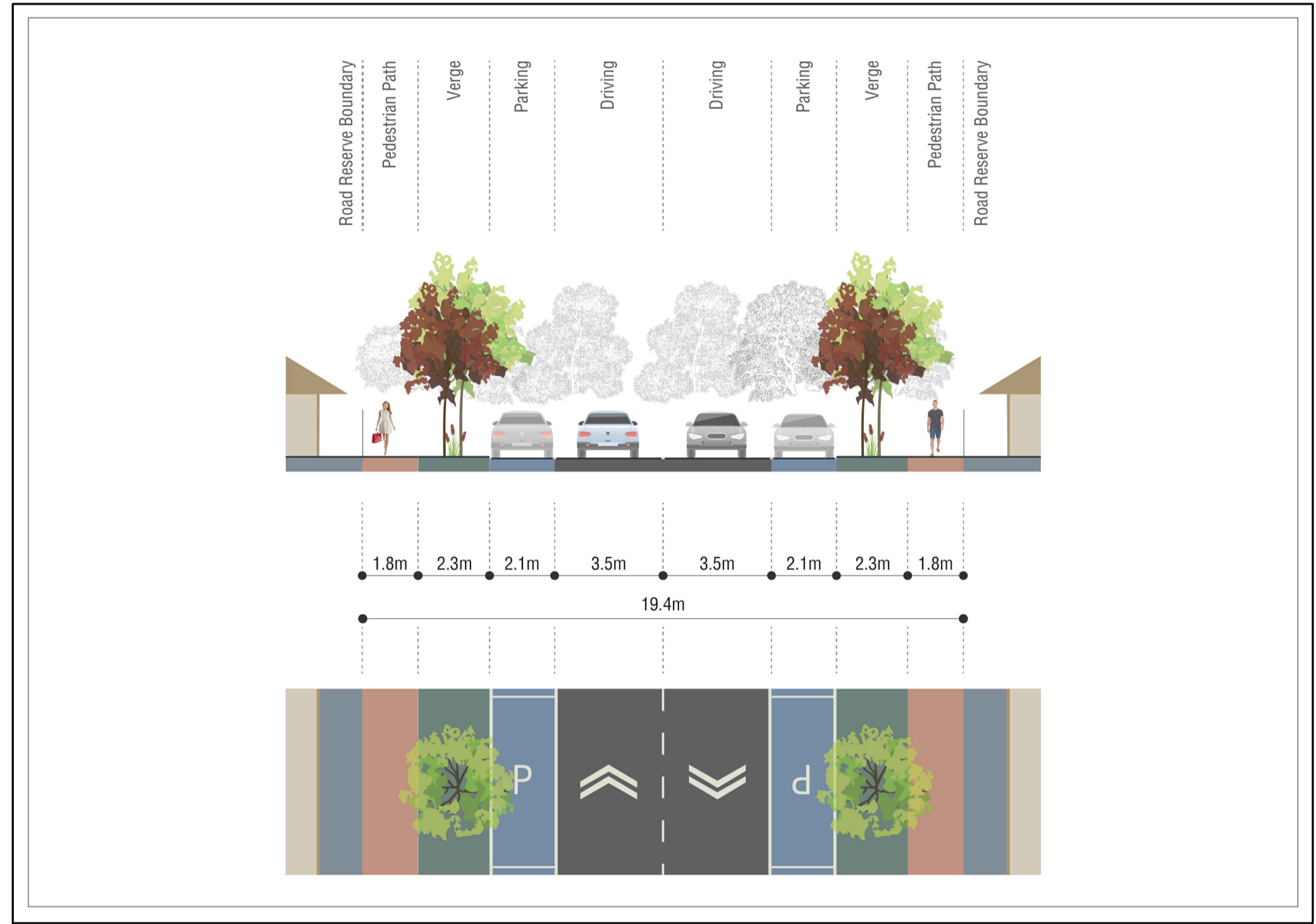
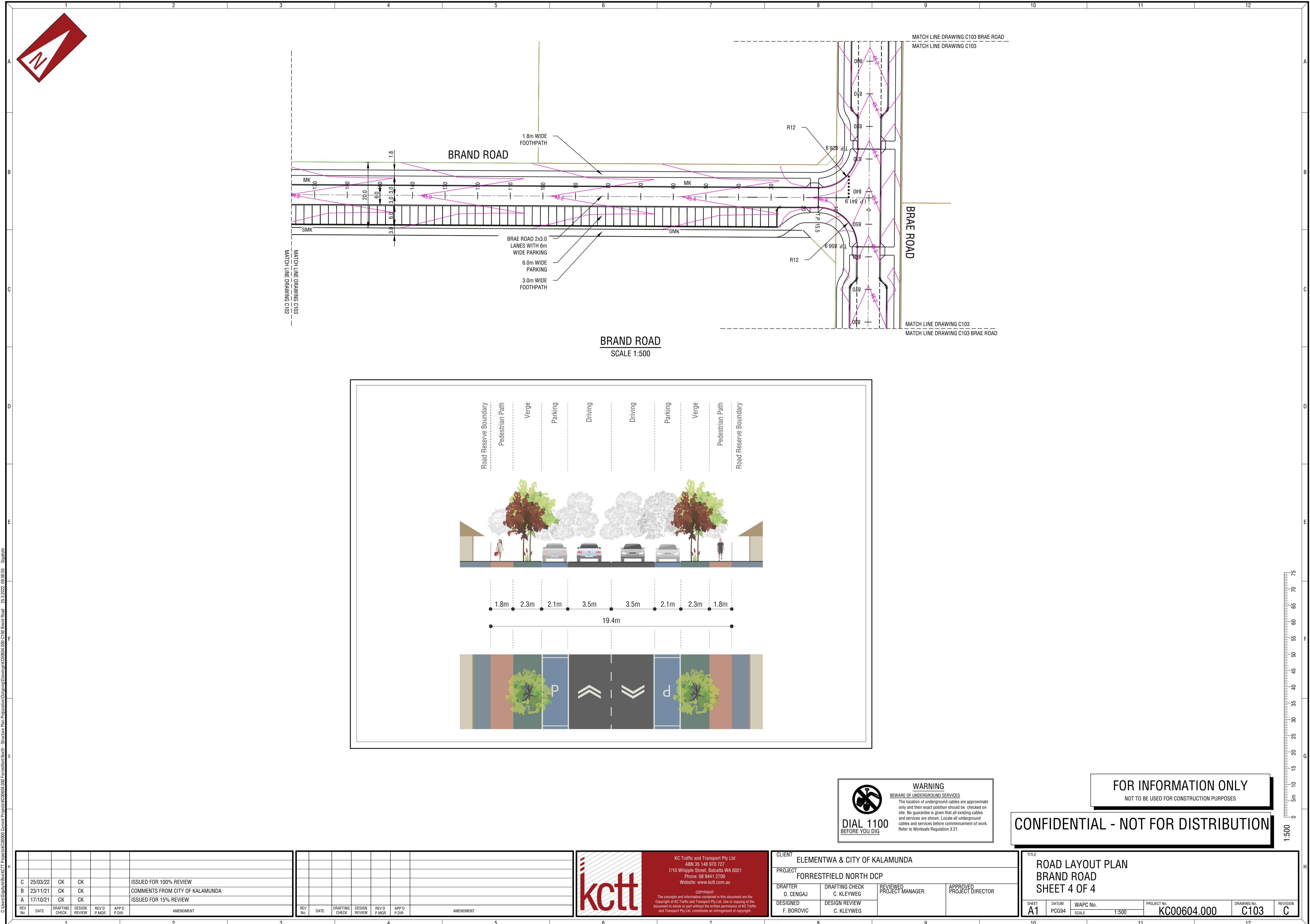
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DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN			
BRAND ROAD			
SHEET 3 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C102	C		

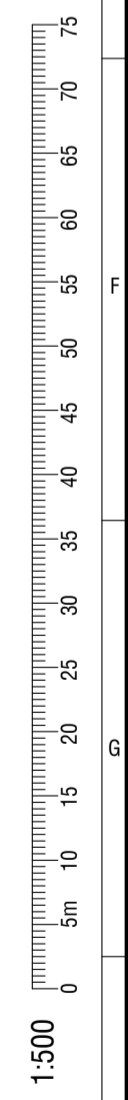


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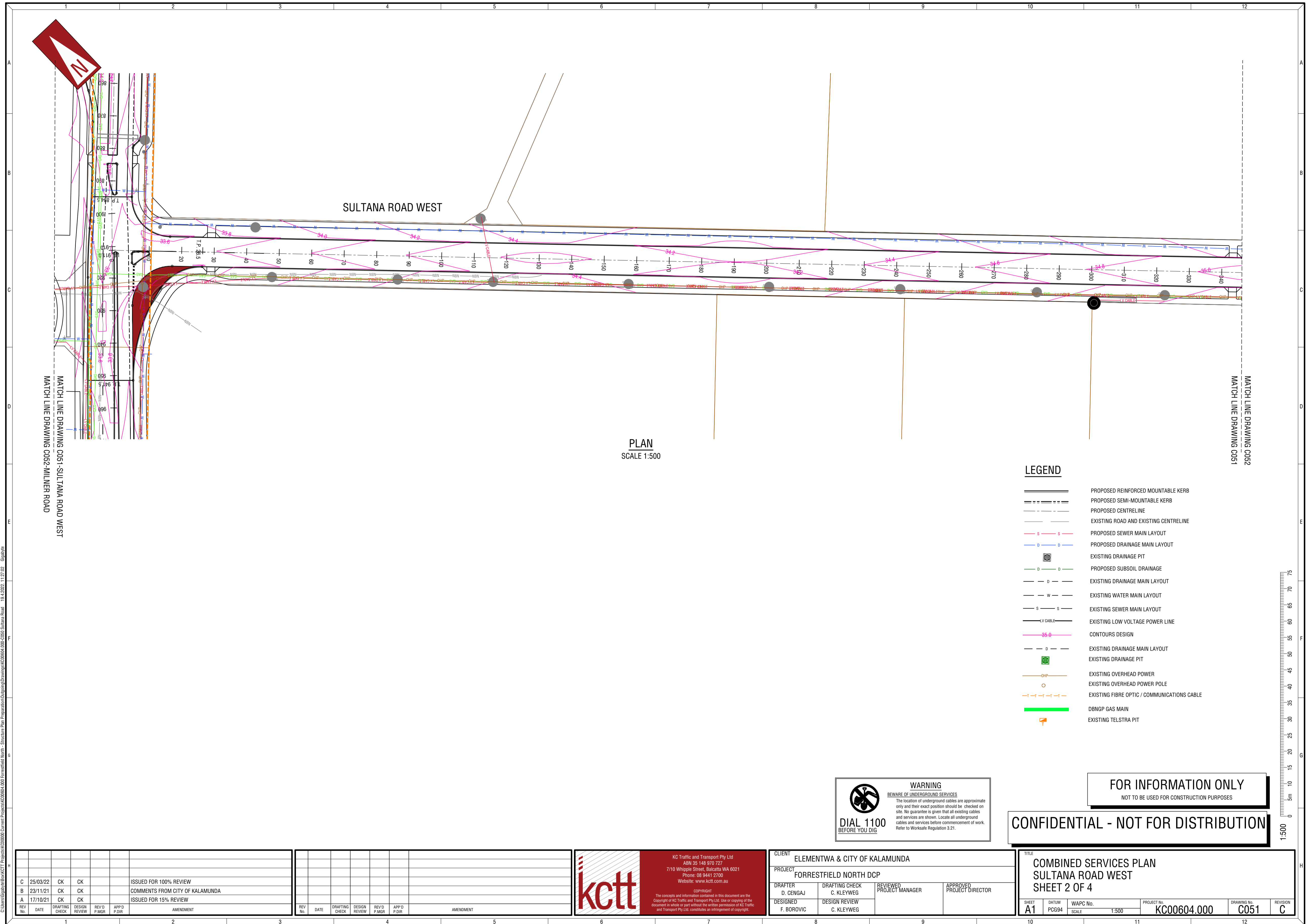
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DESIGNED	F. BOROVIC	DESIGN REVIEW	C. KLEYWEG		

TITLE			
ROAD LAYOUT PLAN			
BRAND ROAD			
SHEET 4 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	POG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C103	C		





PLAN  
SCALE 1:500

**LEGEND**

- PROPOSED REINFORCED MOUNTABLE KERB
- PROPOSED SEMI-MOUNTABLE KERB
- PROPOSED CENTRELINE
- EXISTING ROAD AND EXISTING CENTRELINE
- S S PROPOSED SEWER MAIN LAYOUT
- D D PROPOSED DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- D D PROPOSED SUBSOIL DRAINAGE
- EXISTING DRAINAGE MAIN LAYOUT
- EXISTING WATER MAIN LAYOUT
- S S EXISTING SEWER MAIN LAYOUT
- LV CABLE EXISTING LOW VOLTAGE POWER LINE
- 36.0 CONTOURS DESIGN
- EXISTING DRAINAGE MAIN LAYOUT
- EXISTING DRAINAGE PIT
- OHP EXISTING OVERHEAD POWER
- O EXISTING OVERHEAD POWER POLE
- EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
- DBNGP GAS MAIN
- EXISTING TELSTRA PIT

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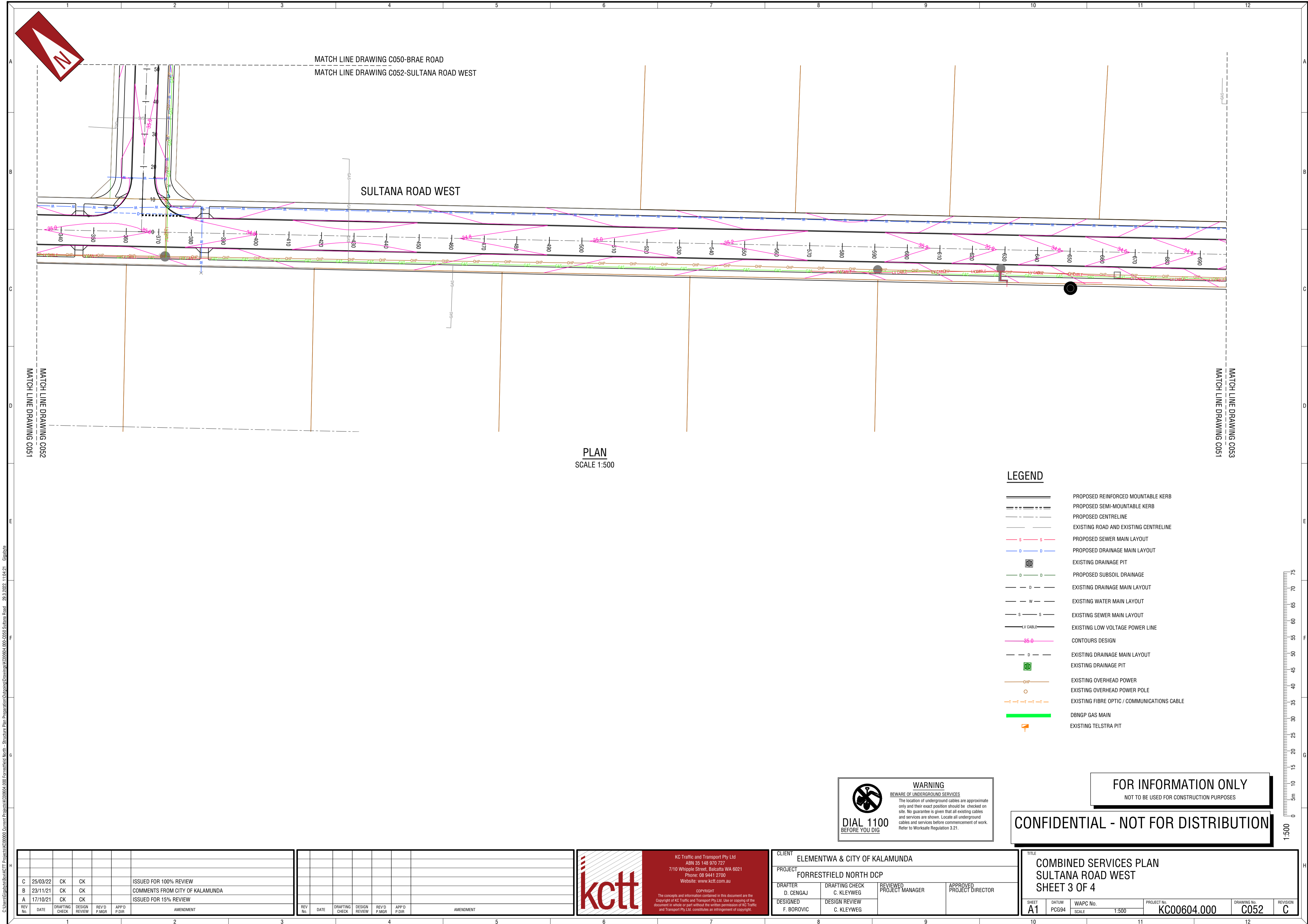
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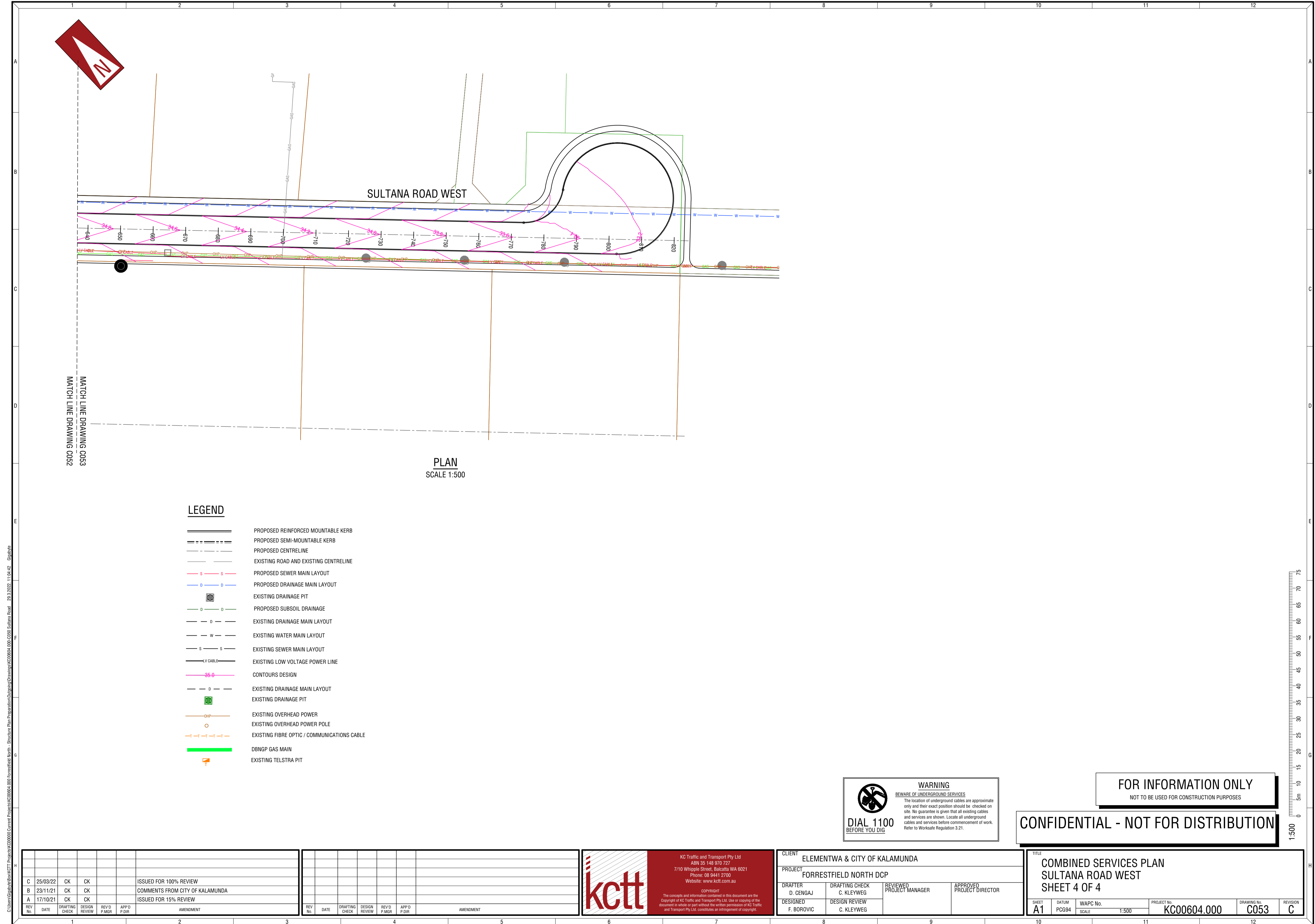
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APPROVED PROJECT DIRECTOR	

TITLE			
COMBINED SERVICES PLAN			
SULTANA ROAD WEST			
SHEET 2 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.		REVISION	
C051		C	







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**LEGEND**

	PROPOSED REINFORCED MOUNTABLE KERB
	PROPOSED SEMI-MOUNTABLE KERB
	PROPOSED CENTRELINE
	EXISTING ROAD AND EXISTING CENTRELINE
	PROPOSED SEWER MAIN LAYOUT
	PROPOSED DRAINAGE MAIN LAYOUT
	EXISTING DRAINAGE PIT
	PROPOSED SUBSOIL DRAINAGE
	EXISTING DRAINAGE MAIN LAYOUT
	EXISTING WATER MAIN LAYOUT
	EXISTING SEWER MAIN LAYOUT
	EXISTING LOW VOLTAGE POWER LINE
	CONTOURS DESIGN
	EXISTING DRAINAGE MAIN LAYOUT
	EXISTING DRAINAGE PIT
	EXISTING OVERHEAD POWER
	EXISTING OVERHEAD POWER POLE
	EXISTING FIBRE OPTIC / COMMUNICATIONS CABLE
	DBNGP GAS MAIN
	EXISTING TELSTRA PIT

PLAN  
SCALE 1:500

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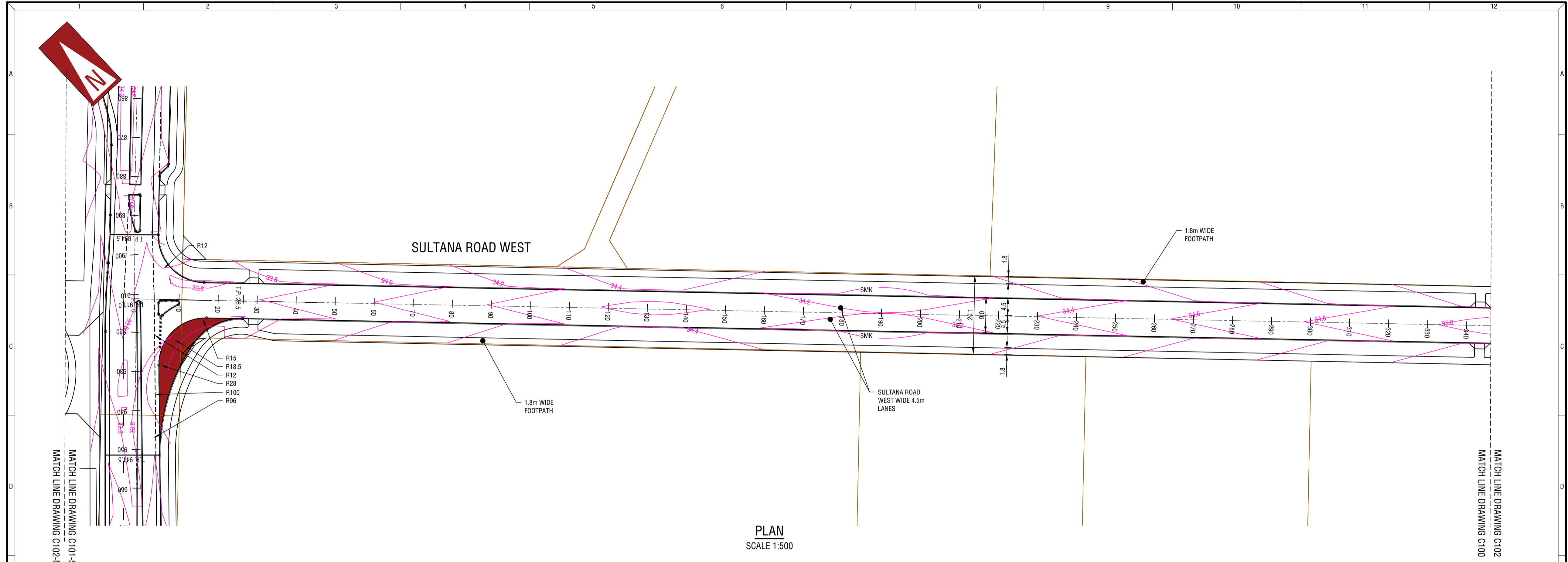
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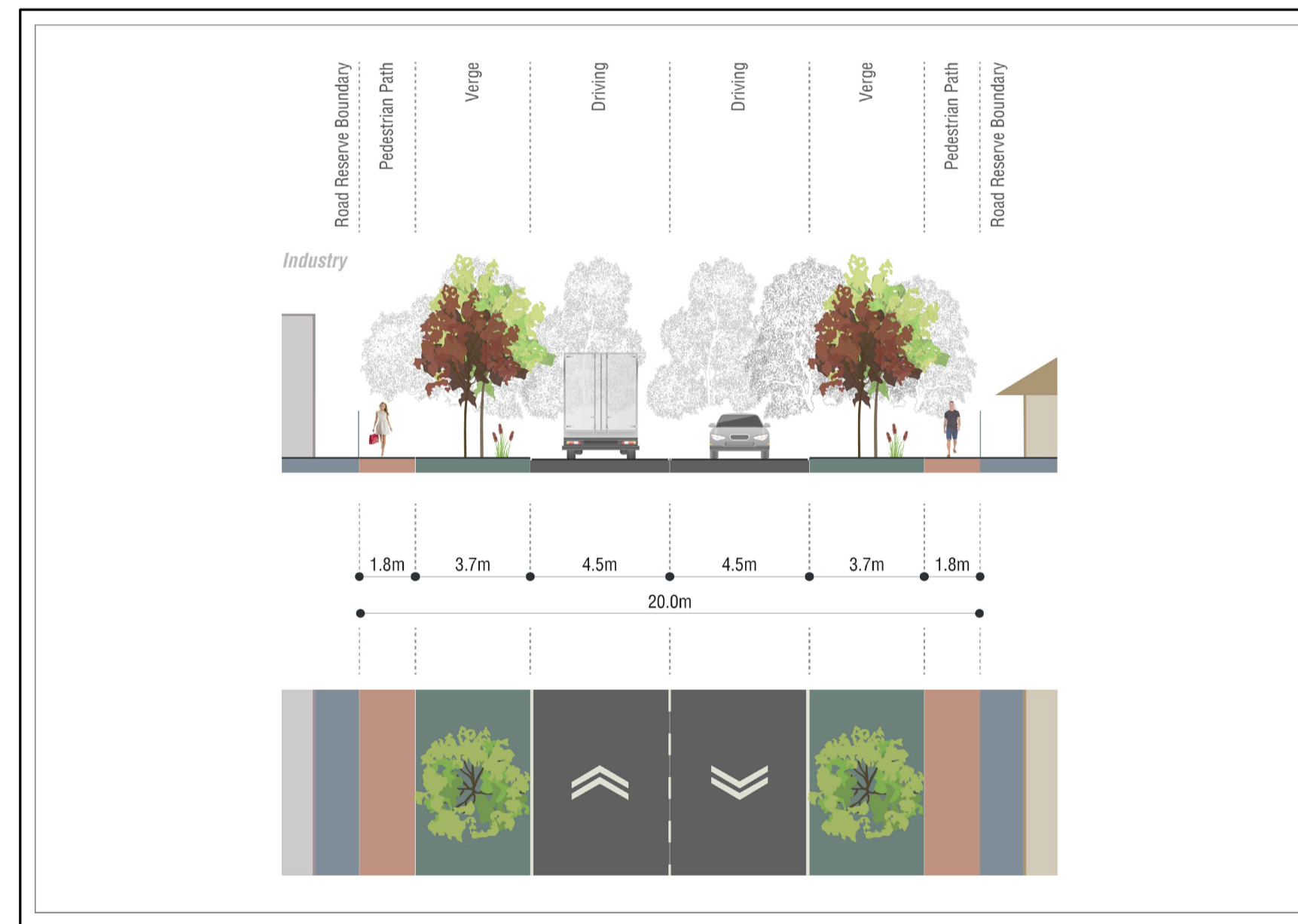
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DESIGNED F. BOROVIC	DESIGN REVIEW C. KLEYWEG		

TITLE COMBINED SERVICES PLAN SULTANA ROAD WEST SHEET 4 OF 4			
SHEET A1	DATUM PG94	WAPC No. SCALE 1:500	PROJECT No. K000604.000
DRAWING No. C053	REVISION C		



PLAN  
SCALE 1:500

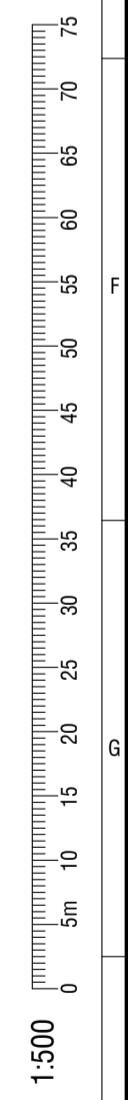


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REV No.	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MDR	APP'D P.DIR	AMENDMENT
C	25/03/22	CK	CK			ISSUED FOR 100% REVIEW
B	23/11/21	CK	CK			COMMENTS FROM CITY OF KALAMUNDA
A	17/10/21	CK	CK			ISSUED FOR 15% REVIEW

REV No.	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MDR	APP'D P.DIR	AMENDMENT

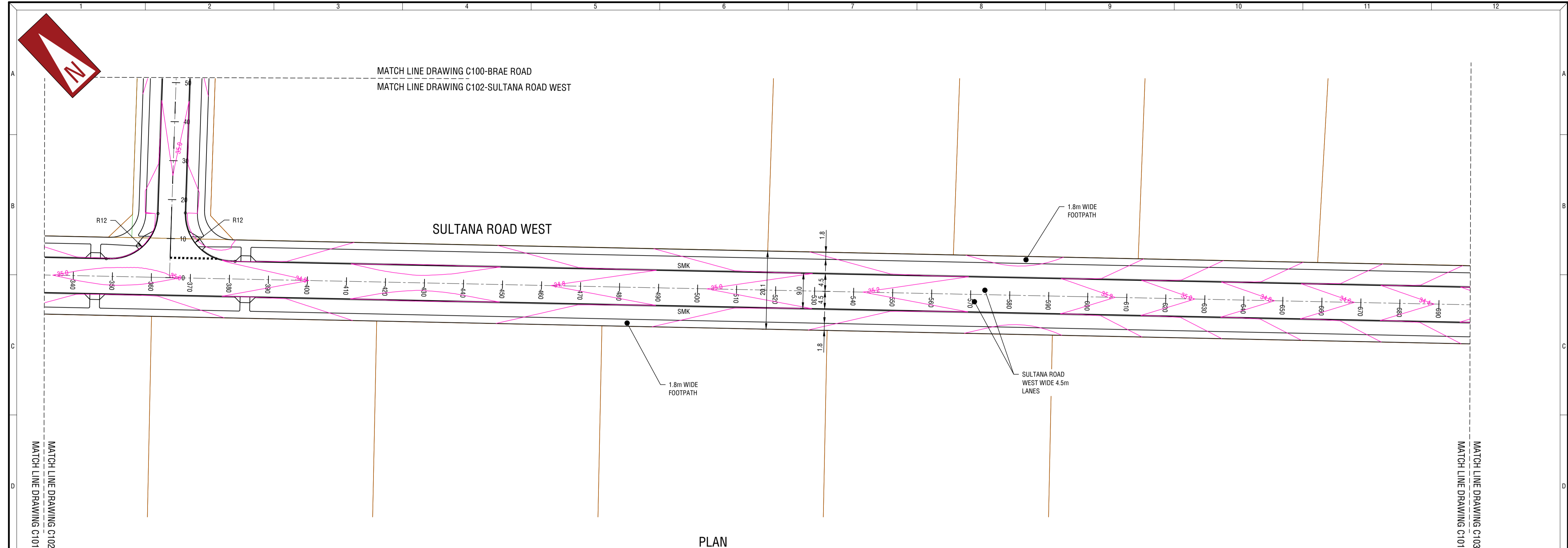
**kctt**  
KC Traffic and Transport Pty Ltd  
ABN 55 148 670 727  
7/10 Whipple Street, Subiaco WA 6021  
Phone: (8) 9441 2700  
Website: www.kctt.com.au

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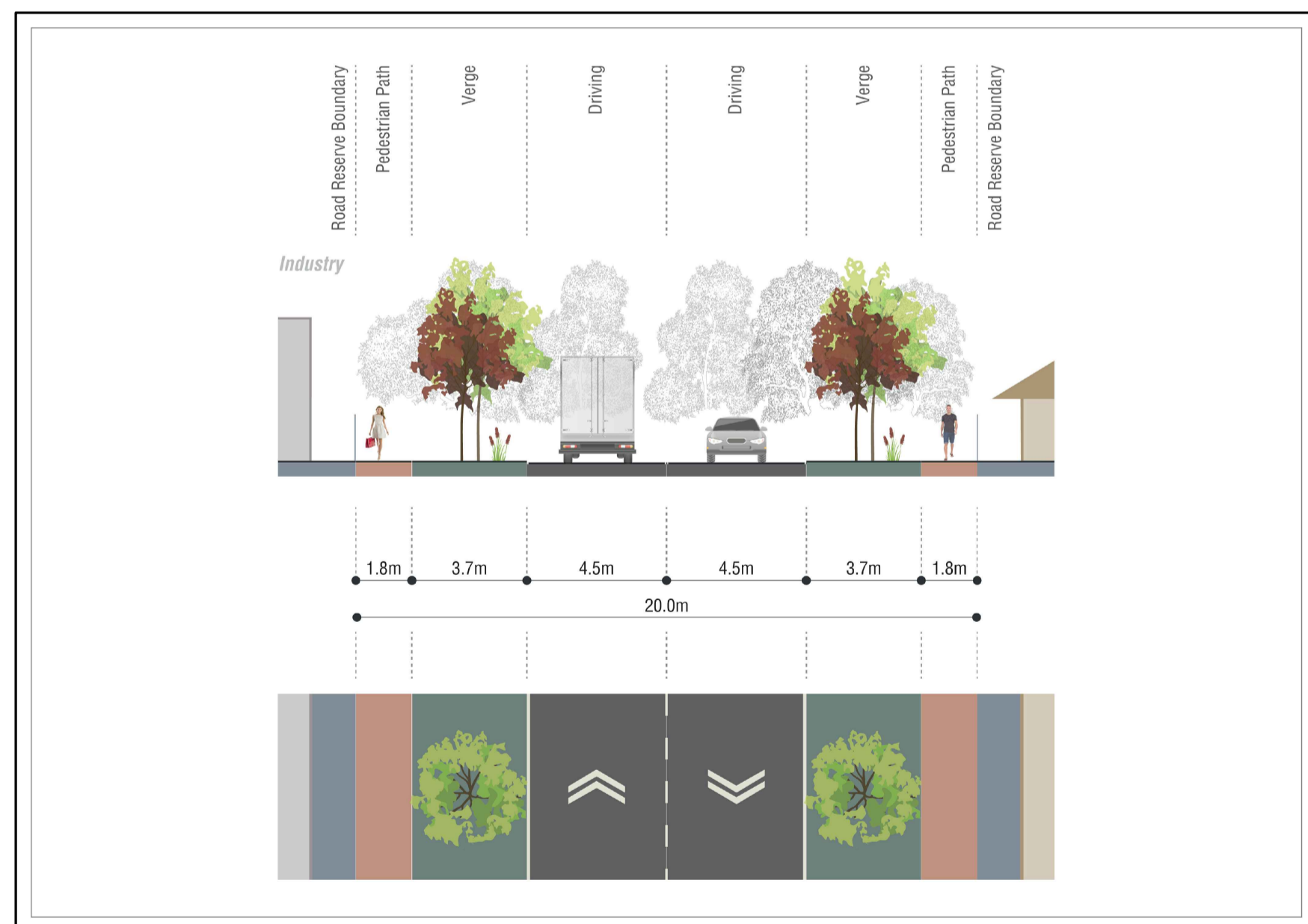
CLIENT	ELEMENTWA & CITY OF KALAMUNDA
PROJECT	FORRESTFIELD NORTH DCP
DRAFTER	D. CENGAJ
DESIGNED	F. BOROVIC
DRAFTING CHECK	C. KLEYWEG
DESIGN REVIEW	C. KLEYWEG
REVIEWED PROJECT MANAGER	
APPROVED PROJECT DIRECTOR	

TITLE			
ROAD LAYOUT PLAN SULTANA ROAD WEST SHEET 2 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	POG94	SCALE 1:500	KC00604.000
DRAWING No.		REVISION	
C101		C	





PLAN  
SCALE 1:500

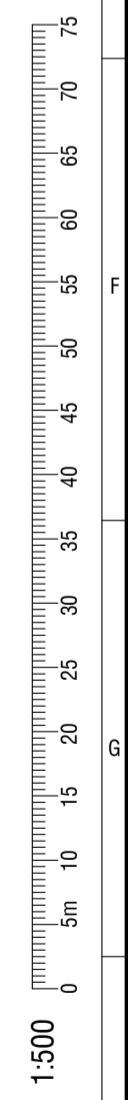


**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Worksafe Regulation 3.21.

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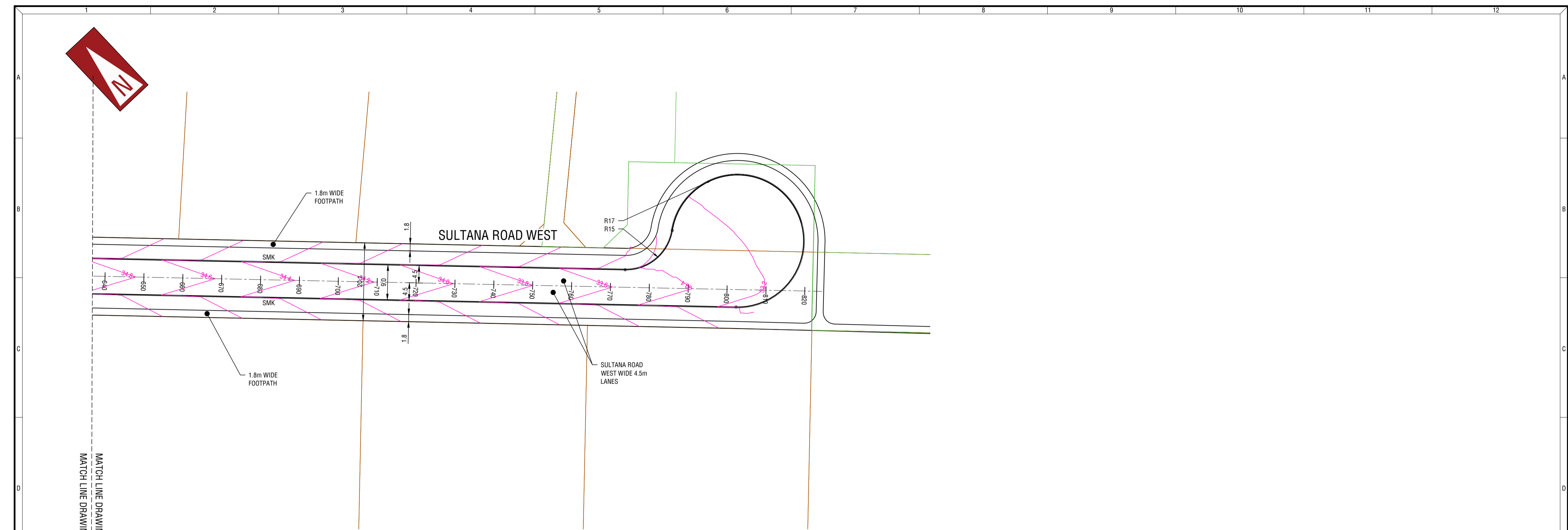
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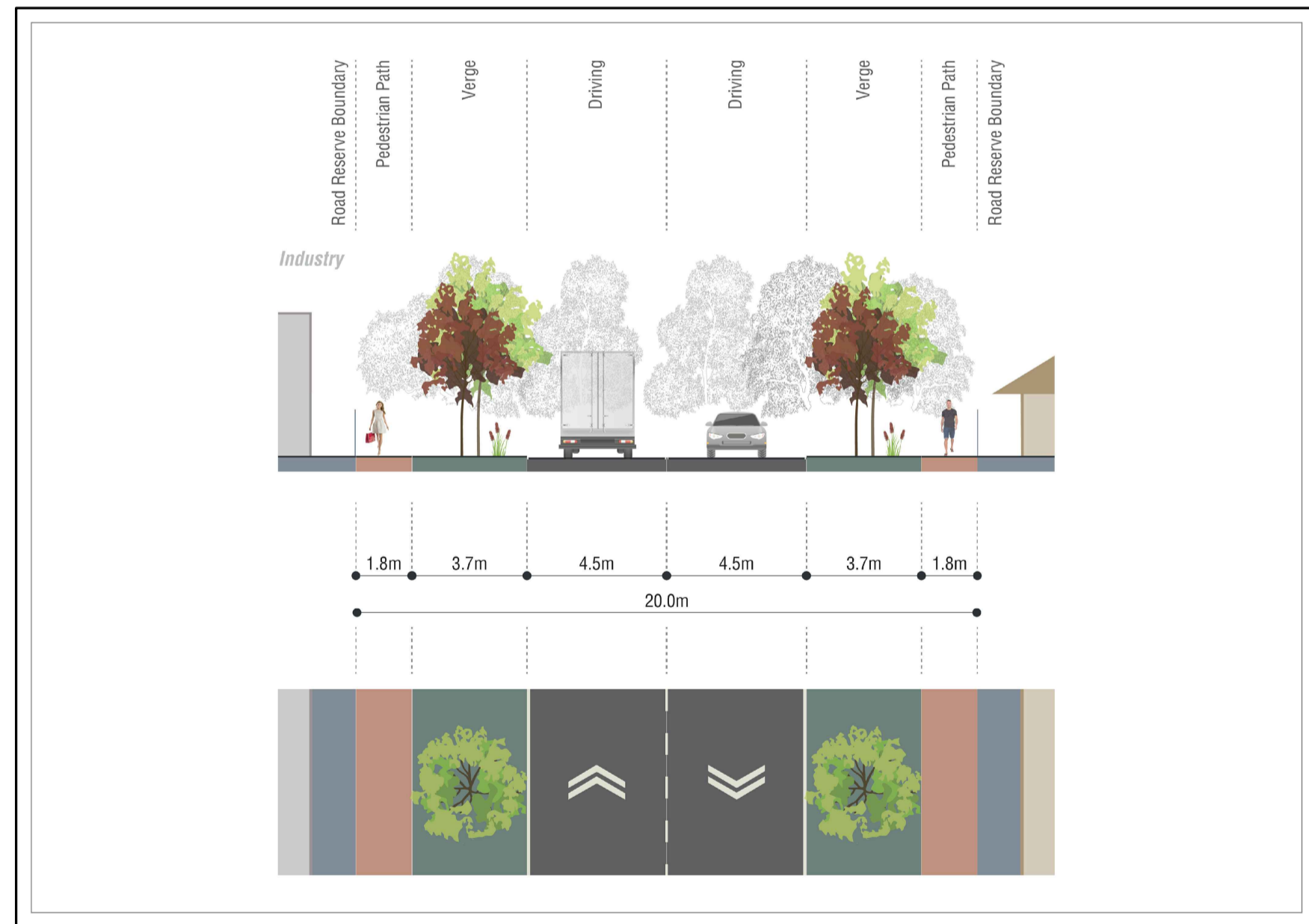
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DESIGNED	F. BOROVIC	DESIGN REVIEW	C. KLEYWEG		

TITLE			
ROAD LAYOUT PLAN SULTANA ROAD WEST SHEET 3 OF 4			
SHEET	DATUM	WAPC No.	PROJECT No.
A1	PG94	SCALE 1:500	KC00604.000
DRAWING No.	REVISION		
C102	C		



PLAN  
SCALE 1:500



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DESIGNED	F. BOROVIC	DESIGN REVIEW	C. KLEYWEG		

TITLE					
ROAD LAYOUT PLAN SULTANA ROAD WEST SHEET 4 OF 4					
SHEET	DATUM	WAPC No.	PROJECT No.	DRAWING No.	REVISION
A1	POG94	SCALE 1:500	KC00604.000	C103	C

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